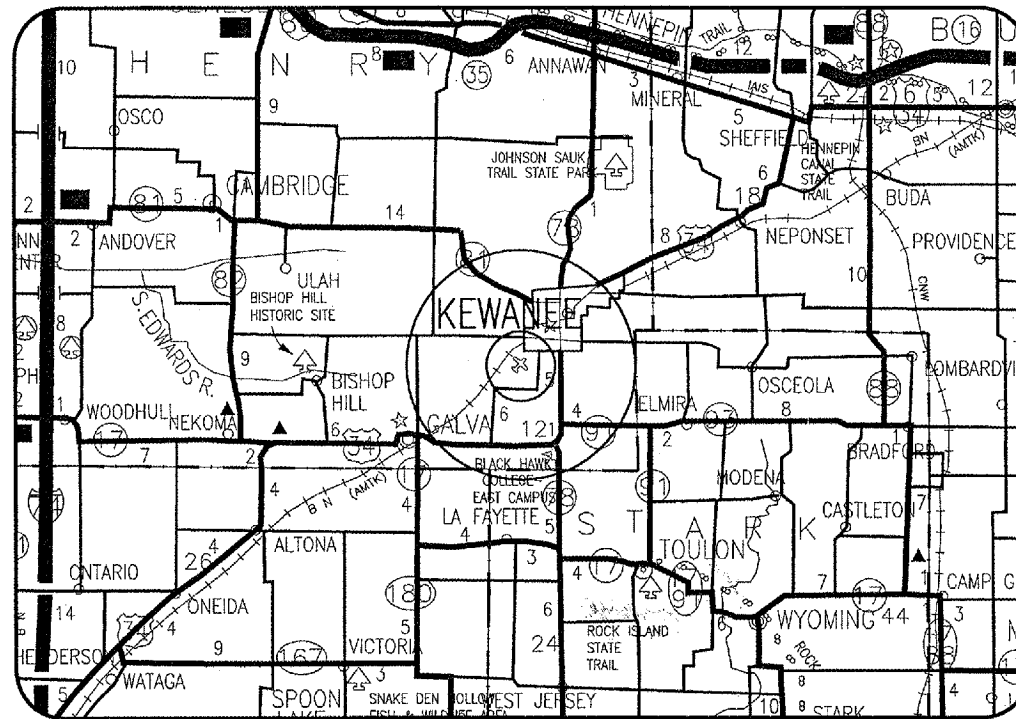


# CONSTRUCTION PLANS FOR KEWANEE MUNICIPAL AIRPORT KEWANEE, HENRY COUNTY, ILLINOIS

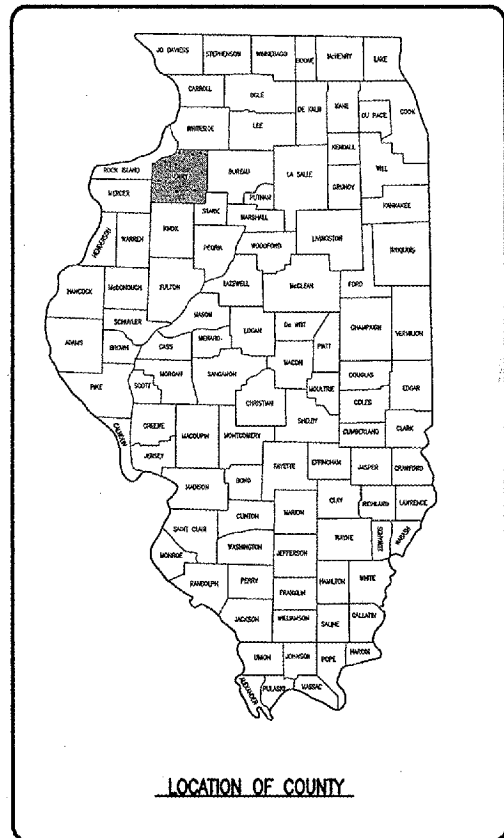
## OVERLAY TAXIWAY "B", "C" AND PART OF APRON, CONSTRUCT NEW VAULT

SCOPE OF WORK

THE PROPOSED IMPROVEMENTS INCLUDE THE CONSTRUCTION OF A BITUMINOUS OVERLAY TO TAXIWAY "B" AND "C" AND THE WESTERN HALF OF THE AIRCRAFT APRON, INSTALLATION OF EDGE DRAINS ADJACENT TO THE SOUTHERN PORTION OF TAXIWAY "B", THE REHABILITATION OF THE TAXIWAY "B" AND "C" MEDIUM INTENSITY TAXIWAY LIGHTING (MITL) SYSTEM, AND THE CONSTRUCTION OF A NEW ELECTRICAL VAULT.

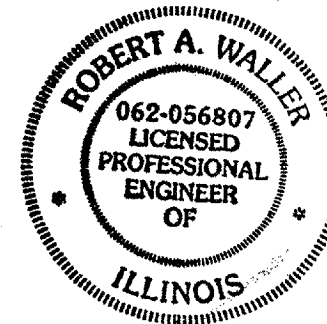
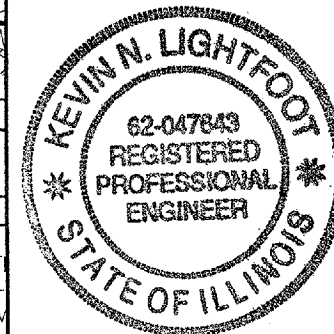


LOCATION



ILL. PROJ. EZI-3533  
A.I.P. PROJ. 3-17-0058-B10

LATITUDE: 41° 12' 19"  
LONGITUDE: 89° 57' 50"  
ELEVATION: 858.0' M.S.L.  
DATE: DECEMBER 16, 2005



PLANS PREPARED BY:

**HANSON**  
Hanson Professional Services Inc.  
**ELECTRICAL ENGINEER**

Submitted by: *Kevin N. Lightfoot* ENG'R

Date Submitted: 1/20/2006

Lics. Exp. Date: 11/30/2007

PLANS PREPARED BY:

**HANSON**  
Hanson Professional Services Inc.  
**AIRPORT ENGINEER**

Submitted by: *Rob A. Waller* ENG'R

Date Submitted: 01/20/2006

Lics. Exp. Date: 11/30/2007

KEWANEE AIRPORT AUTHORITY

Approved: *Richard J. Seaborg* CHAIRMAN

Date: 1/19/06

Approved: *Jody M. Wetmore* SECRETARY

Date: 1/19/06

DATE	REVISION	BY										
KEWANEE MUNICIPAL AIRPORT KEWANEE, HENRY COUNTY, ILLINOIS												
ILL. PROJ. No.	810-061X7D-0800	FILENAME	R-001COV.DWG	LAYOUT	R.A.W.	08/01/06	DRAWN	B.A.K.	08/01/06	REVIEWED	C.A.H.	01/12/06
<b>HANSON</b> Hanson Professional Services Inc. 3125 Danby Trail, Suite 100 Indianapolis, IN 46214 Chicago Nationwide												
OVERLAY TXY & APRON CONSTRUCT VAULT												
COVER SHEET												
1 1 of 67 sheets												

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**SUMMARY OF QUANTITIES**

ITEM NO.	DESCRIPTION	UNIT	AS AWARDED QUANTITIES	AS BUILT QUANTITIES
AR107812	L-807 WIND CONE-12' INTERNALLY LIT	EA	1	
AR107900	REMOVE WIND CONE	EA	1	
AR108158	1/C #8 5KV UG CABLE IN UD	LF	12,614	
AR108554	2/C #4 600V UG CABLE IN UD	LF	920	
AR108656	3/C #6 600V UG CABLE IN UD	LF	870	
AR108800	CONTROL CABLE	LF	560	
AR109100	CONSTRUCT ELECTRICAL VAULT	LS	1	
AR109200	INSTALL ELECTRICAL EQUIPMENT	LS	1	
AR109901	REMOVE ELECTRICAL VAULT	LS	1	
AR110014	4" DIRECTIONAL BORE	LF	390	
AR110503	3-WAY CONCRETE ENCASED DUCT	LF	216	
AR110504	4-WAY CONCRETE ENCASED DUCT	LF	66	
AR110610	ELECTRICAL HANDHOLE	EA	3	
AR125410	MITL-STAKE MOUNTED	EA	42	
AR125415	MITL-BASE MOUNTED	EA	8	
AR125445	TAXI GUIDANCE SIGN, 5 CHARACTER	EA	1	
AR125446	TAXI GUIDANCE SIGN, 6 CHARACTER	EA	2	
AR125901	REMOVE STAKE MOUNTED LIGHT	EA	42	
AR125902	REMOVE BASE MOUNTED LIGHT	EA	8	
AR125904	REMOVE TAXI GUIDANCE SIGN	EA	3	
AR125989	REFURBISH PLASI	EA	1	
AR150510	ENGINEER'S FIELD OFFICE	LS	1	
AR150540	HAUL ROUTE	LS	1	
AR156510	SILT FENCE	LF	100	
AR156511	DITCH CHECK	EA	2	
AR156512	BALES	EA	16	
AR156520	INLET PROTECTION	EA	3	
AR201660	BITUMINOUS CRACK REPAIR	LF	2812	
AR401610	BITUMINOUS SURFACE COURSE	TON	1246	
AR401620	BIT. SURFACE COURSE, LEVELING	TON	800	
AR401655	BUTT JOINT CONSTRUCTION	SY	1778	
AR401910	REMOVE & REPLACE BIT. PAVEMENT	SY	489	
AR402622	POROUS FRICTION COURSE, 0.10'	SY	10,389	
AR501900	REMOVE PCC PAVEMENT	SY	29	
AR510510	TIE DOWN	EA	16	
AR510900	REMOVE TIE DOWN	EA	24	
AR603510	BITUMINOUS TACK COAT	GAL	4848	
AR620520	PAVEMENT MARKING - WATERBORNE	SF	3820	
AR620525	PAVEMENT MARKING - BLACK BORDER	SF	588	
AR705410	POROUS BACKFILL	CY	224	
AR705526	6" PERFORATED UNDERDRAIN W/SOCK	LF	1339	
AR705630	UNDERDRAIN INSPECTION HOLE	EA	5	
AR751909	REMOVE INSPECTION HOLE	EA	3	
AR751949	ADJUST INSPECTION HOLE	EA	9	
AR800590	4/C #6 600V UG CABLE IN UD	LF	310	
AR800591	UPGRADE AIRPORT ROTATING BEACON	LS	1	
AR901510	SEEDING	AC	1.4	
AR905520	TOPSOILING (FROM OFF SITE)	CY	440	
AR908510	MULCHING	AC	1.4	

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3	PROPOSED SAFETY PLAN
4	PROPOSED PAVEMENT PREPARATION PLAN STA. 4+00 TO STA. 12+00
5	PROPOSED PAVEMENT PREPARATION PLAN STA. 12+00 TO STA. 20+00
6	PROPOSED PAVEMENT PREPARATION PLAN STA. 20+00 TO STA. 26+00
7	PROPOSED TYPICAL SECTIONS
8	PROPOSED PLAN AND PROFILE TAXIWAY B STA. 7+00 TO STA. 21+00
9	PROPOSED PLAN AND PROFILE TAXIWAY B STA. 21+00 TO STA. 24+81.11
10	PROPOSED PLAN AND PROFILE TAXIWAY C STA. 100+00 TO STA. 102+96.21
11	PROPOSED STAKING PLAN STA. 4+00 TO STA. 12+00
12	PROPOSED STAKING PLAN STA. 12+00 TO STA. 20+00
13	PROPOSED STAKING PLAN STA. 20+00 TO STA. 26+00
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15	UNDERDRAIN NOTES AND DETAILS
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17	EXISTING TIE DOWN REMOVAL AND MARKING PLAN
18	PROPOSED MARKING PLAN STA 4+00 TO STA. 12+00
19	PROPOSED MARKING PLAN STA. 12+00 TO STA. 20+00
20	PROPOSED MARKING PLAN STA. 20+00 TO STA. 26+00
21	EXISTING ELECTRICAL PLAN STA. 4+00 TO STA. 12+00
22	EXISTING ELECTRICAL PLAN STA. 12+00 TO STA. 20+00
23	EXISTING ELECTRICAL PLAN STA. 20+00 TO STA. 26+00
24	PROPOSED ELECTRICAL PLAN STA. 4+00 TO STA. 12+00
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26	PROPOSED ELECTRICAL PLAN STA. 12+00 TO STA. 20+00
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51	PROPOSED APRON CROSS-SECTIONS STA. 7+02.28 TO STA. 7+18.12
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53	PROPOSED APRON CROSS-SECTIONS STA. 8+50 TO STA. 9+00
54	PROPOSED APRON CROSS-SECTIONS STA. 9+29.35 TO STA. 9+64.87
55	PROPOSED APRON CROSS-SECTIONS STA. 9+79.35 TO STA. 10+19.35
56	PROPOSED TAXIWAY "B" CROSS-SECTIONS STA. 10+21.20 TO STA. 10+71.20
57	PROPOSED TAXIWAY "B" CROSS-SECTIONS STA. 11+00 TO STA. 12+50
58	PROPOSED TAXIWAY "B" CROSS-SECTIONS STA. 12+97.64 TO STA. 13+47.72
59	PROPOSED TAXIWAY "B" CROSS-SECTIONS STA. 14+22.72 TO STA. 15+00
60	PROPOSED TAXIWAY "B" CROSS-SECTIONS STA. 15+50 TO STA. 17+00
61	PROPOSED TAXIWAY "B" CROSS-SECTIONS STA. 17+50 TO STA. 18+50
62	PROPOSED TAXIWAY "B" CROSS-SECTIONS STA. 19+00 TO STA. 20+50
63	PROPOSED TAXIWAY "B" CROSS-SECTIONS STA. 21+00 TO STA. 22+50
64	PROPOSED TAXIWAY "B" CROSS-SECTIONS STA. 23+00 TO STA. 24+22.63
65	PROPOSED TAXIWAY "B" CROSS-SECTIONS STA. 24+50 TO STA. 24+81.11
66	PROPOSED TAXIWAY "C" CROSS-SECTIONS STA. 100+30 TO STA. 101+00
67	PROPOSED TAXIWAY "C" CROSS-SECTIONS STA. 101+50 TO STA. 102+96.21

DATE	REVISION	BY

KEWANEE MUNICIPAL AIRPORT  
KEWANEE, HENRY COUNTY, ILLINOIS  
A.I.P. PROJ.: 3-17-0058-810  
IL PROJ.: E71-3533

810-06TXXD 0800	08/01/05
R-002FLP.DWG	08/01/05
NOT TO SCALE	08/01/05
08/01/05	08/01/05
LAYOUT	R.A.W.
DRAWN	B.A.K.
REVIEWED	C.A.H.



OVERLAY TXY & APRON  
CONSTRUCT VAULT  
SUMMARY OF QUANTITIES,  
INDEX TO SHEETS

JAN 18, 2006 7:51 PM EAW  
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**SCOPE OF WORK**

THE PROPOSED IMPROVEMENTS INCLUDE THE CONSTRUCTION OF A BITUMINOUS OVERLAY TO TAXIWAY "B" AND "C" AND THE WESTERN HALF OF THE AIRCRAFT APRON, INSTALLATION OF EDGE DRAINS ADJACENT TO THE SOUTHERN PORTION OF TAXIWAY "B", THE REHABILITATION OF THE TAXIWAY "B" AND "C" MEDIUM INTENSITY TAXIWAY LIGHTING (MITL) SYSTEM, AND THE CONSTRUCTION OF A NEW ELECTRICAL VAULT.

**CONTRACTOR'S RESPONSIBILITIES**

**GENERAL :**  
THE CONTRACTOR MUST FOLLOW PROCEDURES ON THIS SHEET THAT ASSURES SAFE OPERATING CONDITIONS FOR AIRCRAFT AS WELL AS HIS PERSONNEL AND EQUIPMENT. THE AIRPORT MANAGER WILL AT ALL TIMES HAVE JURISDICTION OVER THE SAFETY OF AIR TRAFFIC DURING CONSTRUCTION.

**IDENTIFICATION -** THE CONTRACTOR IS REQUIRED TO MARK ALL VEHICLES AND EQUIPMENT USED FOR CONSTRUCTION WITH 3 FT. SQUARE, INTERNATIONAL ORANGE AND WHITE CHECKERED FLAGS ANYTIME THEY ARE ON AIRPORT PROPERTY.

ALL CONTRACTOR PERSONNEL SHALL HAVE IDENTIFICATION MAKING IT OBVIOUS THAT THEY ARE A PART OF THE CONSTRUCTION CREW.

THE CONTRACTOR, HIS EMPLOYEES, AND EQUIPMENT SHALL BE RESTRICTED TO THE PROJECT WORK AREA.

**RADIO CONTROL -** THE CONTRACTOR IS REQUIRED TO BE IN TWO-WAY RADIO CONTACT WITH THE KEWANEE MUNICIPAL AIRPORT UNICOM (122.80 MHZ) WHENEVER HIS PERSONNEL IS ON THE AIRPORT PROPERTY.

**EQUIPMENT PARKING AND STORAGE -** THE CONTRACTOR'S EQUIPMENT PARKING, MATERIAL STORAGE, AND EMPLOYEE PARKING WILL BE AT THE LOCATION SHOWN ON THIS DRAWING. ONLY VEHICLES AND EQUIPMENT NECESSARY FOR CONSTRUCTION WILL BE PERMITTED TO LEAVE THESE AREAS.

THE CONTRACTOR IS REQUIRED TO LIMIT THE USE OF CONSTRUCTION EQUIPMENT ON THE EXISTING PAVEMENTS. ONLY EQUIPMENT NEEDED TO COMPLETE THE SPECIFIC WORK ON THE EXISTING PAVEMENT WILL BE PERMITTED. THE CONTRACTOR IS RESPONSIBLE FOR REPAIRING ANY DAMAGE TO EXISTING PAVEMENTS CAUSED BY HIS PERSONNEL OR EQUIPMENT.

**150-ENGINEER'S FIELD OFFICE NOTES**

THE PROPOSED ENGINEER'S FIELD OFFICE WILL BE FURNISHED, MAINTAINED, AND REMOVED IN ACCORDANCE WITH ITEM AR150510 "ENGINEER'S FIELD OFFICE" AS STATED ON PAGE 168 OF THE SUPPLEMENTAL SPECIFICATIONS AND RECURRING SPECIAL PROVISIONS, ADOPTED JULY 1, 2004.

THE LOCATION OF THE PROPOSED ENGINEER'S FIELD OFFICE WILL BE DETERMINED AT THE PRE-CONSTRUCTION MEETING.

THE ENGINEERING FIRM WILL MAKE PAYMENT FOR ALL LONG DISTANCE TELEPHONE CALLS IN EXCESS OF ONE HUNDRED DOLLARS (\$100.00) PER MONTH.

THE PROPOSED ENGINEER'S FIELD OFFICE WILL BE PAID FOR UNDER ITEM:  
AR150510 ENGINEER'S FIELD OFFICE \_\_\_\_\_ 1 L.S.

**FLAG-MEN**

WHEN RUNWAY 1-19 IS CLOSED AND CONSTRUCTION TRAFFIC IS REQUIRED TO CROSS THE OPEN RUNWAY, RUNWAY 9-27, THE CONTRACTOR WILL USE FLAG-MEN, EQUIPPED WITH RADIOS, TO DIRECT TRUCK TRAFFIC ACROSS RUNWAY 9-27. THE FLAG-MEN MUST HAVE THE COMMUNICATION EQUIPMENT CAPABLE OF CHANGING FREQUENCIES TO CONTACT EACH OTHER AND THE AIRPORT UNICOM (122.80 MHZ). THE REQUIRED USE OF FLAGMEN WILL BE CONSIDERED INCIDENTAL TO THE CONTRACT AND NO ADDITIONAL COMPENSATION WILL BE ALLOWED.

**BARRICADES AND TRAFFIC CONES**

IT WILL BE THE CONTRACTOR'S RESPONSIBILITY TO PLACE AND MAINTAIN BARRICADES AND TRAFFIC CONES AS SHOWN ON THIS SHEET OR AS DIRECTED BY THE RESIDENT ENGINEER. THE BARRICADES WILL BE EQUIPPED WITH RED STEADY BURN LIGHTS AND 20 INCH SQUARE ORANGE FLAGS. THE BARRICADES AND CONES, THEIR MAINTENANCE, PLACEMENT AND REMOVAL WITHIN THE RECONSTRUCTION AREA WILL BE CONSIDERED AS AN INCIDENTAL ITEM TO THE CONTRACT AND NO ADDITIONAL COMPENSATION WILL BE ALLOWED.

TRAFFIC CONES WILL BE USED ON A CLOSED RUNWAY FOR TRAFFIC CONTROL IN LIEU OF BARRICADES.

**J.U.L.I.E. INFORMATION**

COUNTY HENRY  
CITY KEWANEE  
TOWNSHIP WETHERSFIELD  
SECTION NO. 17  
ADDRESS KEWANEE MUNICIPAL AIRPORT  
3761 MIDLAND ROAD  
KEWANEE, ILLINOIS 61443

**HORIZONTAL AND VERTICAL DATA**

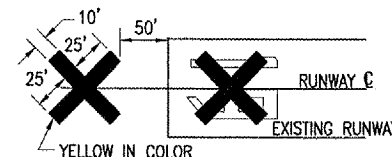
NO.	DESCRIPTION	NORTHING	EASTING	ELEV.
1	KEWPORT AZ (NGS) MARKER, ALUM. ROD	1,652,491.649	2,349,792.846	850.62
2	CHISELED "□" ON INSPECTION HOLE	-	-	848.87
3	KEWPORT (NGS) MARKER, ALUM. ROD	1,652,431.715	2,352,728.103	854.13
4	CHISELED "□" ON EAST END OF CONC. SIGN BASE	-	-	854.76
5	CHISELED "□" ON WEST END OF CONC. SIGN BASE	-	-	851.21

THE LOCATION, SIZE AND TYPE OF MATERIAL OF EXISTING UNDERGROUND UTILITIES INDICATED ON THE PLANS IS NOT REPRESENTED AS BEING ACCURATE, SUFFICIENT OR COMPLETE. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE THE ACTUAL LOCATION OF ALL SUCH FACILITIES, INCLUDING SERVICE CONNECTIONS TO UNDERGROUND UTILITIES. PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL NOTIFY THE UTILITY COMPANIES OF HIS OPERATIONAL PLANS AND SHALL OBTAIN FROM THE RESPECTIVE UTILITY COMPANIES DETAILED INFORMATION AND ASSISTANCE RELATIVE TO THE LOCATION OF THEIR FACILITIES AND THE WORKING SCHEDULE OF THE COMPANIES FOR REMOVAL OR ADJUSTMENT WHERE REQUIRED. IN THE EVENT AN UNEXPECTED UTILITY INTERFERENCE IS ENCOUNTERED DURING CONSTRUCTION, THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE UTILITY COMPANY OF JURISDICTION. THE ENGINEER SHALL ALSO BE IMMEDIATELY NOTIFIED. ANY SUCH MAINS AND SERVICES SHALL BE RESTORED TO SERVICE AT ONCE AND PAID FOR BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE CONTRACT.

CALL J.U.L.I.E. FOR UTILITY INFORMATION AT 1-800-892-0123.

**TEMPORARY RUNWAY CLOSURE NOTE**

COST OF CONSTRUCTING, PLACING, MAINTAINING AND REMOVING CROSSES WILL BE CONSIDERED INCIDENTAL TO THE CONTRACT AND NO ADDITIONAL COMPENSATION WILL BE ALLOWED. THE CROSSES WILL BE YELLOW IN COLOR AND SHALL BE MADE OF A SUITABLE MATERIAL AS APPROVED BY THE RESIDENT ENGINEER. THE CROSSES WILL BE PLACED AS SHOWN ON THIS SHEET AND SECURED IN A MANNER APPROVED BY THE RESIDENT ENGINEER. THE PROPOSED CROSSES WILL BE PLACED EACH DAY THE RUNWAY IS CLOSED AND REMOVED WHEN THE RUNWAY IS RE-OPENED. THE CONTRACTOR WILL BE RESPONSIBLE FOR THE PLACEMENT AND REMOVAL OF THE CROSSES. NO ADDITIONAL COMPENSATION TO THE CONTRACT WILL BE ALLOWED.



**DETAIL OF CROSS FOR CLOSED RUNWAY**

"NOT TO SCALE"

**RUNWAY CLOSURE PROCEDURES:**

- \* CONTACT THE AIRPORT MANAGER OR HIS ASSIGNED REPRESENTATIVE.
- \* ISSUANCE OF NOTAM BY THE AIRPORT MANAGER OR HIS ASSIGNED REPRESENTATIVE.
- \* PLACEMENT OF CROSSES (SEE DETAIL THIS SHEET).
- \* PLACEMENT OF LIGHTED BARRICADES. ONLY AT THE TIME THAT ALL OF THE ABOVE ARE COMPLETED MAY ANY CONSTRUCTION OPERATIONS WITHIN 200 FT. OF THE AFFECTED RUNWAY CENTERLINE BEGIN.

**RUNWAY RE-OPENING PROCEDURES:**

- \* REMOVE CROSSES.
- \* REMOVE LIGHTED BARRICADES.
- \* NOTIFY THE AIRPORT MANAGER OR HIS REPRESENTATIVE TO CANCEL THE NOTAM.
- \* CANCELLATION OF THE NOTAM. A CLOSED RUNWAY WILL NOT BE RE-OPENED UNTIL ALL EQUIPMENT AND WORK ARE FURTHER THAN 200 FT. FROM THE AFFECTED RUNWAY CENTERLINE.

**RUNWAY AND TAXIWAY CLOSURE NOTE:**

RUNWAY 9-27 AND 1-19 WILL BE CLOSED ANY TIME CONSTRUCTION ACTIVITIES ARE REQUIRED WITHIN 200' OF THE RESPECTIVE RUNWAY CENTERLINE, IN ACCORDANCE WITH THE PROCEDURES SHOWN ON THIS PROPOSED SAFETY PLAN. HOWEVER, ONE RUNWAY WILL REMAIN OPEN WHEN THE OTHER IS CLOSED, THROUGH THE USE OF FLAGMEN, WHERE NECESSARY. TAXIWAY "B" AND "C", AS WELL AS THE PORTION OF THE RAMP AFFECTED BY THE PROJECT, WILL BE CLOSED FOR THE DURATION OF THE PROJECT.

**AIRCRAFT OPERATION LINE**

THE RESIDENT ENGINEER WILL ESTABLISH THE AIRCRAFT OPERATIONAL AREA FOR EACH OF THE AIRPORT RUNWAYS BY PLACING A ROW OF LATH, 200 FT. FROM EACH OF THE CENTERLINES. NO PERSONNEL OR EQUIPMENT WILL CROSS THE LATH ROW WITHOUT CLOSING THE RESPECTIVE RUNWAY.

**HEIGHT OF CONSTRUCTION EQUIPMENT**

THE MAXIMUM ANTICIPATED HEIGHT OF THE CONSTRUCTION EQUIPMENT WILL BE 25 FT. THE TALLEST EQUIPMENT IS EXPECTED TO BE A SEMI-TRACTOR AND TRAILER.

**HAUL ROUTE AND EQUIPMENT PARKING**

THE CONTRACTOR IS REQUIRED TO CONSTRUCT A TEMPORARY HAUL ROUTE AND EQUIPMENT PARKING AREA IN ACCORDANCE WITH THE SPECIAL PROVISIONS AND AT THE LOCATION SHOWN ON THIS SHEET. THE HAUL ROUTE AND EQUIPMENT PARKING AREA SHALL BE ESTABLISHED AS FAR SOUTH AND EAST OF RUNWAY 1-19 AS IS PRACTICAL.

THE DESIGNATED HAUL ROUTE SHALL BE THE ONLY ACCESS USED BY THE CONTRACTOR OR HIS EMPLOYEES.

THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING ALL REQUIRED PERMITS TO USE STATE, CITY, COUNTY, OR TOWNSHIP ROADS.

THE CONTRACTOR AND HIS PERSONNEL SHALL ACCESS THE AIRPORT THROUGH AN EXISTING GATE LOCATED OFF MIDLAND ROAD. THE CONTRACTOR WILL ENSURE THE GATE IS CLOSED AND LOCKED AT THE END OF EACH DAY.

THE INSTALLATION OF THE PROPOSED LIGHTING HOMERUN CABLES THROUGH OR ACROSS THE HAUL ROUTE WILL REQUIRE COORDINATION BETWEEN CONTRACTORS AND NO ADDITIONAL COMPENSATION WILL BE ALLOWED FOR LABOR OR MATERIAL ASSOCIATED WITH THE COORDINATION OR INSTALLATION FOR WORK BEYOND THAT IS SPECIFIED.

ALL WORK ASSOCIATED WITH THE PROPOSED HAUL ROUTE SHALL BE CONSIDERED INCIDENTAL TO AR150540 - HAUL ROUTE.

**EROSION CONTROL**

THE PROPOSED CONSTRUCTION WILL DISTURB MORE THAN 1 ACRES OF LAND, THEREFORE AN EROSION CONTROL PLAN AND AN NPDES PERMIT ARE REQUIRED.

**LEGEND**

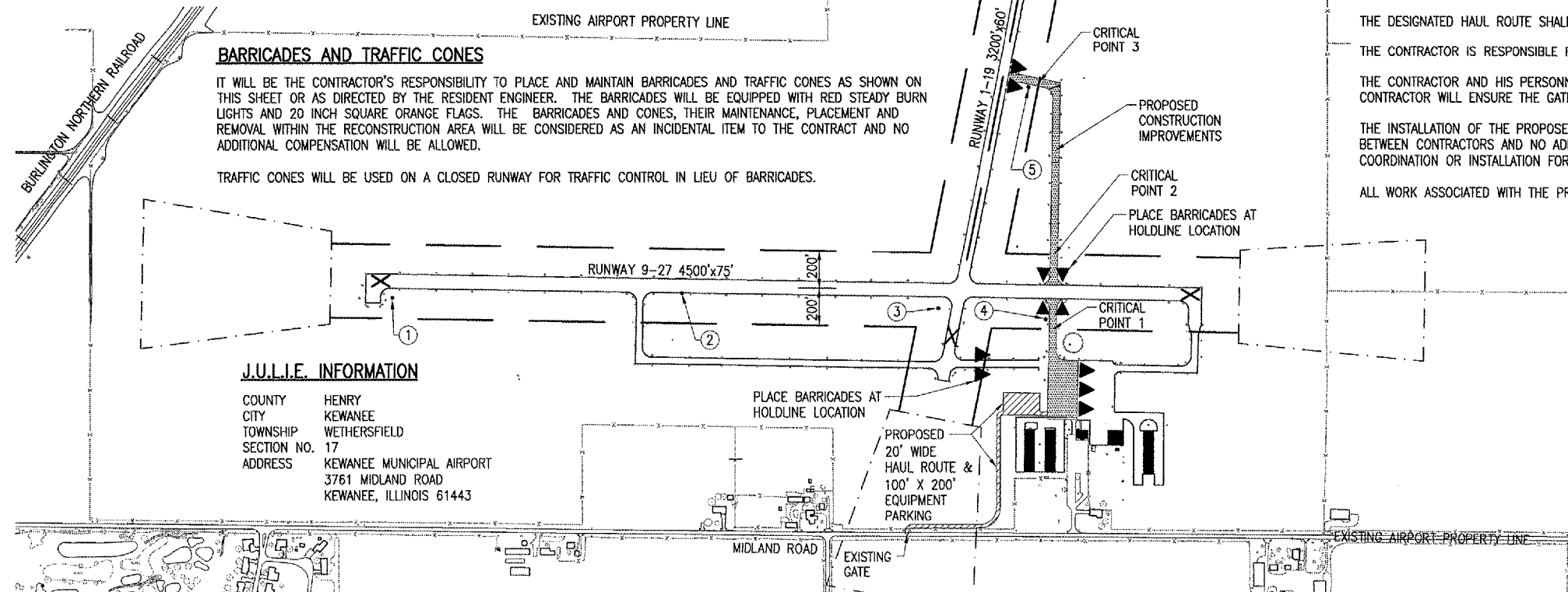
- EXISTING IMPROVEMENTS
- EXISTING BUILDING
- PROPOSED CONSTRUCTION IMPROVEMENTS
- PROPOSED EQUIPMENT/VEHICLE PARKING AREA & HAUL ROUTE
- EXISTING AIRPORT PROPERTY LINE
- LIGHTED BARRICADES
- HORIZONTAL/VERTICAL CONTROL

**CRITICAL POINT DATA**

CRITICAL POINT 1  
LATITUDE - 41° 12' 12.08227"  
LONGITUDE - 89° 57' 37.36973"  
ELEVATION - 854.90

CRITICAL POINT 2  
LATITUDE - 41° 12' 16.03385"  
LONGITUDE - 89° 57' 37.26742"  
ELEVATION - 856.31

CRITICAL POINT 3  
LATITUDE - 41° 12' 25.08439"  
LONGITUDE - 89° 57' 38.28434"  
ELEVATION - 851.59



DATE	REVISION

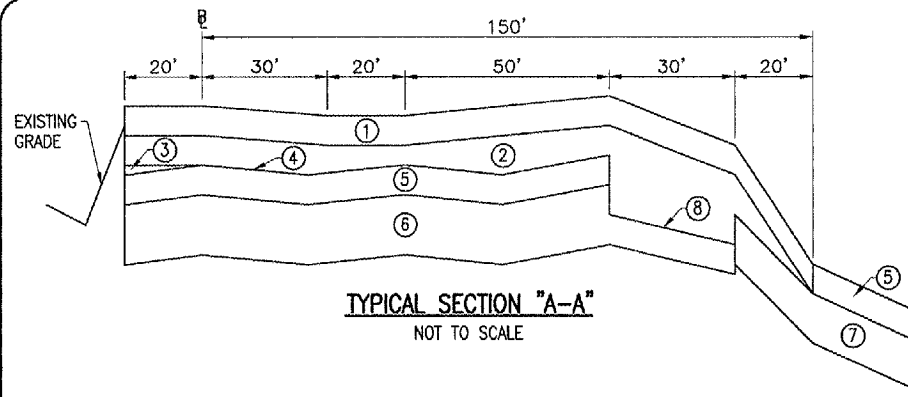
BY  
DATE  
KEWANEE MUNICIPAL AIRPORT  
KEWANEE, HENRY COUNTY, ILLINOIS  
A.I.P. PROJ.: 3-17-0068-810

Project No. 810-067XVD_0800	Scale 1" = 400'	Date 08/01/05
File Name R-1015AF.DWG	Scale 1" = 400'	Date 08/01/05
LAYOUT	R.A.W.	08/01/05
DRAWN	B.A.K.	08/01/05
REVIEWED	C.A.H.	xx/xx/xx

**HANSON**  
Hanson Professional Services Inc.  
3125 Dancy Trail, Suite 100  
Indianapolis, Indiana 46214  
Offices Nationwide

OVERLAY TXY & APRON  
CONSTRUCT VAULT  
PROPOSED SAFETY PLAN

JAN 18, 2006 8:08 PM RAW I:\AIRPORTS\KEWANEE\810-067XVD\AIRPORT\1015AF.DWG - Safety Plan



**LEGEND FOR TYPICAL SECTION "A-A"**

- ① EXISTING BITUMINOUS SURFACE CSE. (2" DEPTH)
- ② EXISTING BITUMINOUS BASE CSE. (2" MAX. DEPTH)
- ③ EXISTING BITUMINOUS LEVELING CSE. (VAR. DEPTH)
- ④ EXISTING BITUMINOUS TACK COAT
- ⑤ EXISTING BITUMINOUS SURFACE CSE. (2" DEPTH)
- ⑥ EXISTING CRUSHED AGG. BASE CSE. (7" DEPTH)
- ⑦ EXISTING BITUMINOUS BASE CSE. (6" DEPTH)
- ⑧ EXISTING BITUMINOUS PRIME COAT

**REMOVE AND REPLACE BITUMINOUS PAVEMENT**

THE ITEM "REMOVE AND REPLACE BITUMINOUS PAVEMENT" WILL BE UTILIZED TO PERFORM LARGE CRACK REPAIR.

THE QUANTITY OF CRACKS TO BE REPAIRED WAS ESTABLISHED BY THE COMPLETION OF A CRACK SURVEY (AUG. 2005), AND CONSISTS OF THOSE CRACKS FOUND TO BE GREATER THAN ONE INCH IN WIDTH AT THE TIME OF THE SURVEY, AND EXHIBITING ROLLED EDGES. ALL CRACKS TO RECEIVE REPAIR SHALL BE LOCATED AND MARKED BY THE RESIDENT ENGINEER.

THE CRACKS SHALL BE REMOVED FROM THE PAVEMENT BY ONE OF TWO METHODS, OR A COMBINATION OF THE TWO. THE FIRST ALTERNATIVE IS TO SAWCUT THE WIDTH OF THE AREA TO BE REPAIRED BY USING A WHEEL SAW AND REMOVE THE PAVEMENT TO THE SPECIFIED DEPTH USING A BACKHOE OR OTHER MECHANICAL MEANS. THE SECOND ALTERNATIVE IS TO USE A SKID STEER (OR EQUIVALENT) MOUNTED MILLING HEAD TO REMOVE THE PAVEMENT TO THE REQUIRED DEPTH. REGARDLESS OF THE METHOD USED TO REMOVE THE PAVEMENT, THE EDGE OF THE TRENCH FORMED WILL HAVE A VERTICAL FACE PRIOR TO THE PLACEMENT OF THE BITUMINOUS MATERIAL. THE WIDTH OF REPAIR WILL BE 3' WIDE, CENTERED ON THE CRACK. THE DEPTH OF REPAIR WILL BE THE FULL DEPTH OF THE EXISTING PAVEMENT.

THE CONTRACTOR WILL DISPOSE OF THE EXCAVATED MATERIAL OFF THE AIRPORT SITE AT NO ADDITIONAL COST TO THE CONTRACT.

THE BOTTOM OF THE TRENCH WILL BE CLEANED AND COMPACTED TO PREVENT FUTURE SETTLEMENT, AND ACCEPTED BY THE RESIDENT ENGINEER. ONCE THE TRENCH IS CLEANED, THE BASE AGGREGATE COMPACTED, AND ACCEPTED, AN APPLICATION OF BITUMINOUS TACK MATERIAL WILL BE APPLIED TO THE VERTICAL BITUMINOUS FACE AND THE AGGREGATE BASE. THE REPAIR TRENCH WILL BE BACKFILLED WITH BITUMINOUS SURFACE COURSE MATERIAL (401), IN LIFTS OF THICKNESS NO GREATER THAN 3". THE FINAL LIFT SHALL BE FLUSH WITH THE SURFACE OF THE EXISTING BITUMINOUS PAVEMENT OR THE CONTRACTOR WILL BE REQUIRED TO MILL THE FINAL LIFT FLUSH AT HIS EXPENSE. EACH LIFT SHALL BE COMPACTED AND ACCEPTED BY THE RESIDENT ENGINEER. NO NUCLEAR DENSITY TESTING SHALL BE REQUIRED TO COMPLETE THIS TASK.

ANY DAMAGE TO THE EXISTING ADJACENT PAVEMENT WILL BE REPAIRED BY THE CONTRACTOR AT HIS EXPENSE. THE QUANTITY OF PAVEMENT REMOVAL, MILLING AND/OR SAWCUTS, IF UTILIZED, TACK MATERIAL, AND BITUMINOUS SURFACE COURSE MATERIAL (401) NECESSARY TO COMPLETE THIS TASK WILL BE CONSIDERED INCIDENTAL TO THE TASK, AND NO ADDITIONAL COMPENSATION WILL BE ALLOWED.

THE QUANTITY OF BITUMINOUS CRACK REPAIR TO BE PAID FOR SHALL BE THE NUMBER OF SQUARE YARDS OF PAVEMENT REMOVED AND REPLACED, IN ACCORDANCE WITH THE SPECIAL PROVISIONS, CONSTRUCTION DRAWINGS, AND ACCEPTED BY THE ENGINEER. MEASUREMENT OF BITUMINOUS CRACK REPAIR FOR PAYMENT SHALL BE TO THE NEAREST SQUARE YARD.

PAYMENT FOR THIS ITEM OF WORK WILL BE UNDER ITEM:  
AR401910 "REMOVE AND REPLACE BITUMINOUS PAVEMENT" \_\_\_\_\_ 489 S.Y.

**BITUMINOUS CRACK REPAIR**

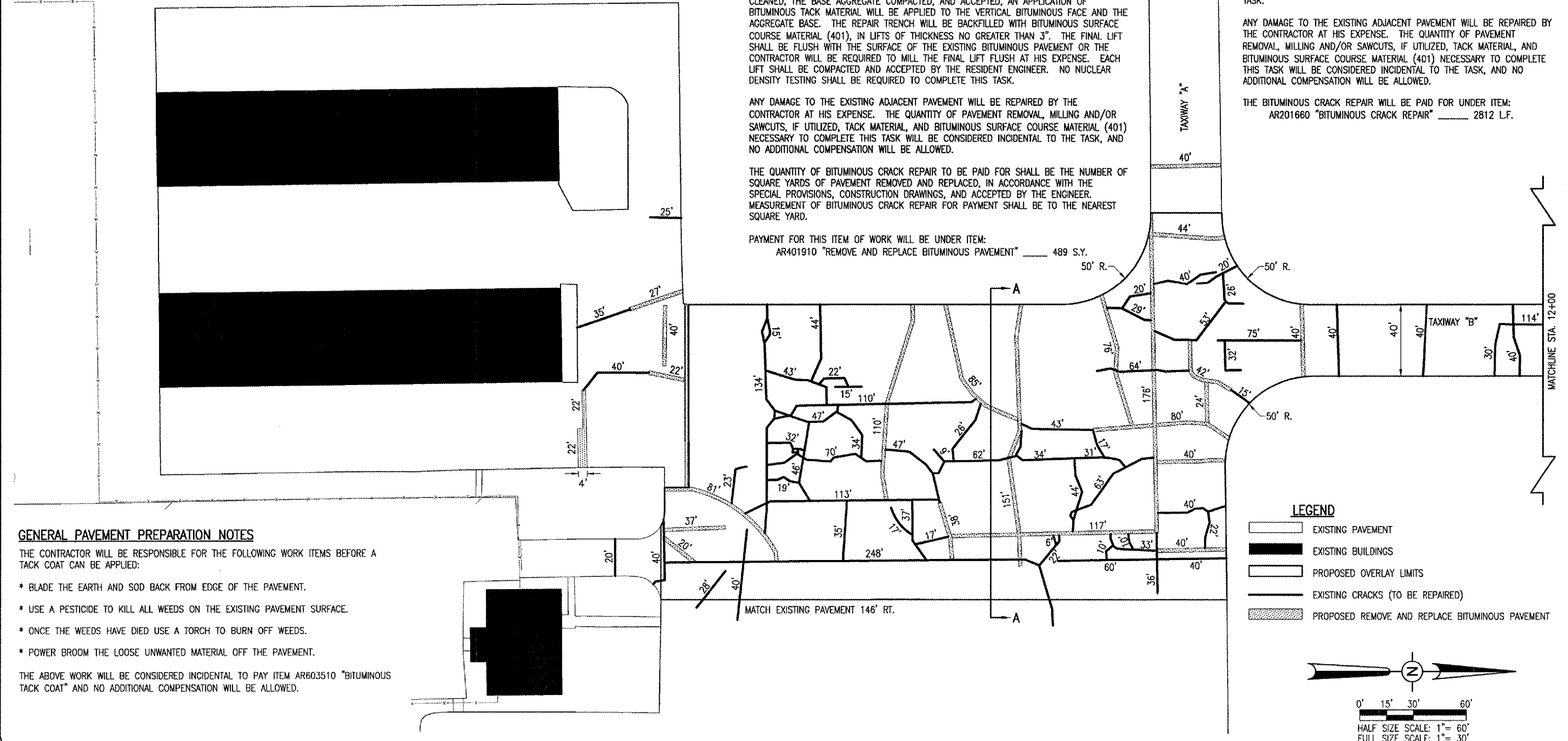
THE CRACKS SHOWN TO BE REPAIRED WERE OBTAINED FROM A SURVEY AUGUST 2005 AND CONSIST OF THE CRACKS IN NEED OF REPAIR AT THE TIME OF THE SURVEY. OTHER LESS SEVERE, MAINTAINED CRACKS EXIST AND WILL NOT REQUIRE FURTHER REPAIR. THE ACTUAL LENGTH AND NUMBER OF CRACKS TO BE REPAIRED AS PART OF THIS PROJECT WILL BE DESIGNATED BY THE RESIDENT ENGINEER AT THE TIME OF CONSTRUCTION. THE PROJECT QUANTITY IS BASED ON THE AMOUNT OF CRACKS SHOWN ON THIS SHEET TO BE REPAIRED.

THE CRACKS SHALL BE CUT OPEN USING AN "EARTH SAW" OR "VERMEER TRENCHER" AT A WIDTH OF 10" PLUS OR MINUS 1", AND A DEPTH OF 8". THE EXCAVATED MATERIAL WILL BE DISPOSED OF OFF THE AIRPORT SITE BY THE CONTRACTOR.

AN APPLICATION OF BITUMINOUS TACK MATERIAL WILL BE APPLIED TO THE VERTICAL BITUMINOUS FACE AND THE AGGREGATE BASE. THE REPAIR TRENCH WILL BE BACKFILLED WITH BITUMINOUS SURFACE COURSE MATERIAL (401), IN LIFTS OF THICKNESS NO GREATER THAN 3". THE FINAL LIFT SHALL BE FLUSH WITH THE SURFACE OF THE EXISTING BITUMINOUS PAVEMENT OR THE CONTRACTOR WILL BE REQUIRED TO MILL THE FINAL LIFT FLUSH AT HIS OWN EXPENSE. EACH LIFT SHALL BE COMPACTED TO THE SATISFACTION OF THE RESIDENT ENGINEER AND ACCEPTED. NO NUCLEAR DENSITY TESTING SHALL BE REQUIRED FOR THIS TASK.

ANY DAMAGE TO THE EXISTING ADJACENT PAVEMENT WILL BE REPAIRED BY THE CONTRACTOR AT HIS EXPENSE. THE QUANTITY OF PAVEMENT REMOVAL, MILLING AND/OR SAWCUTS, IF UTILIZED, TACK MATERIAL, AND BITUMINOUS SURFACE COURSE MATERIAL (401) NECESSARY TO COMPLETE THIS TASK WILL BE CONSIDERED INCIDENTAL TO THE TASK, AND NO ADDITIONAL COMPENSATION WILL BE ALLOWED.

THE BITUMINOUS CRACK REPAIR WILL BE PAID FOR UNDER ITEM:  
AR201660 "BITUMINOUS CRACK REPAIR" \_\_\_\_\_ 2812 L.F.



**GENERAL PAVEMENT PREPARATION NOTES**

THE CONTRACTOR WILL BE RESPONSIBLE FOR THE FOLLOWING WORK ITEMS BEFORE A TACK COAT CAN BE APPLIED:

- \* BLADE THE EARTH AND SOD BACK FROM EDGE OF THE PAVEMENT.
- \* USE A PESTICIDE TO KILL ALL WEEDS ON THE EXISTING PAVEMENT SURFACE.
- \* ONCE THE WEEDS HAVE DIED USE A TORCH TO BURN OFF WEEDS.
- \* POWER BROOM THE LOOSE UNWANTED MATERIAL OFF THE PAVEMENT.

THE ABOVE WORK WILL BE CONSIDERED INCIDENTAL TO PAY ITEM AR603510 "BITUMINOUS TACK COAT" AND NO ADDITIONAL COMPENSATION WILL BE ALLOWED.

BY	
REVISION	
DATE	

Kewanee Municipal Airport  
Kewanee, Henry County, Illinois  
A.I.P. PROJ.: 3-17-0058-B10  
IL PROJ.: E71-3533

Project No.	810-081X10.0800
File Name	R-111.PRP.DWG
Scale	1"=30'
Date	08/25/05
LAYOUT	R.A.W. 08/25/05
DRAWN	B.A.K. 08/25/05
REVIEWED	C.A.H. xx/xx/xx

**HANSON**  
Hanson Professional Services Inc.  
3125 Dandy Trail, Suite 100  
Indianapolis, Indiana 46214  
Offices Nationwide

OVERLAY TXY & APRON  
CONSTRUCT VAULT  
PROPOSED PAVEMENT  
PREPARATION PLAN  
STA. 4+00 TO STA. 12+00

JAN 18, 2006 8:58 PM RAW  
F:\AIRPORTS\KEWANEE\B10-081X10\AIRPORT\_SHEETS\R-111.PRP.DWG - STA. 4+00 TO STA. 12+00



JAN 18, 2006 10:21 PM RAW  
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KE007

**LEGEND**

	EXISTING PAVEMENT
	PROPOSED OVERLAY LIMITS
	EXISTING CRACKS (TO BE REPAIRED)
	PROPOSED REMOVE AND REPLACE BITUMINOUS PAVEMENT
	PROPOSED REMOVE PCC PAVEMENT

**P.C.C. PAVEMENT REMOVAL NOTES**

THE AREA DESIGNATED AS ON THIS SHEET AND LABELED AS PCC PAVEMENT TO BE REMOVED SHALL HAVE THE EXISTING P.C.C. PAVEMENT REMOVED (FULL DEPTH) TO A SUITABLE SUBGRADE. ALL REMOVED MATERIAL WILL BE DISPOSED OF OFF THE AIRPORT SITE.

WHERE THE PROPOSED REMOVAL AREA ABUTS THE EXISTING PAVEMENT, THE P.C.C. PAVEMENT WILL BE SAWS AS SHOWN ON THIS SHEET. THE SAWING WILL BE CONSIDERED AS AN INCIDENTAL ITEM TO THE PROPOSED P.C.C. PAVEMENT REMOVAL AND NO ADDITIONAL COMPENSATION WILL BE ALLOWED.

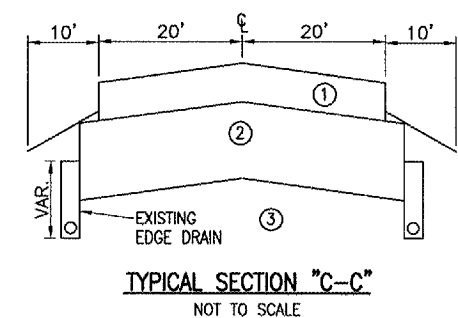
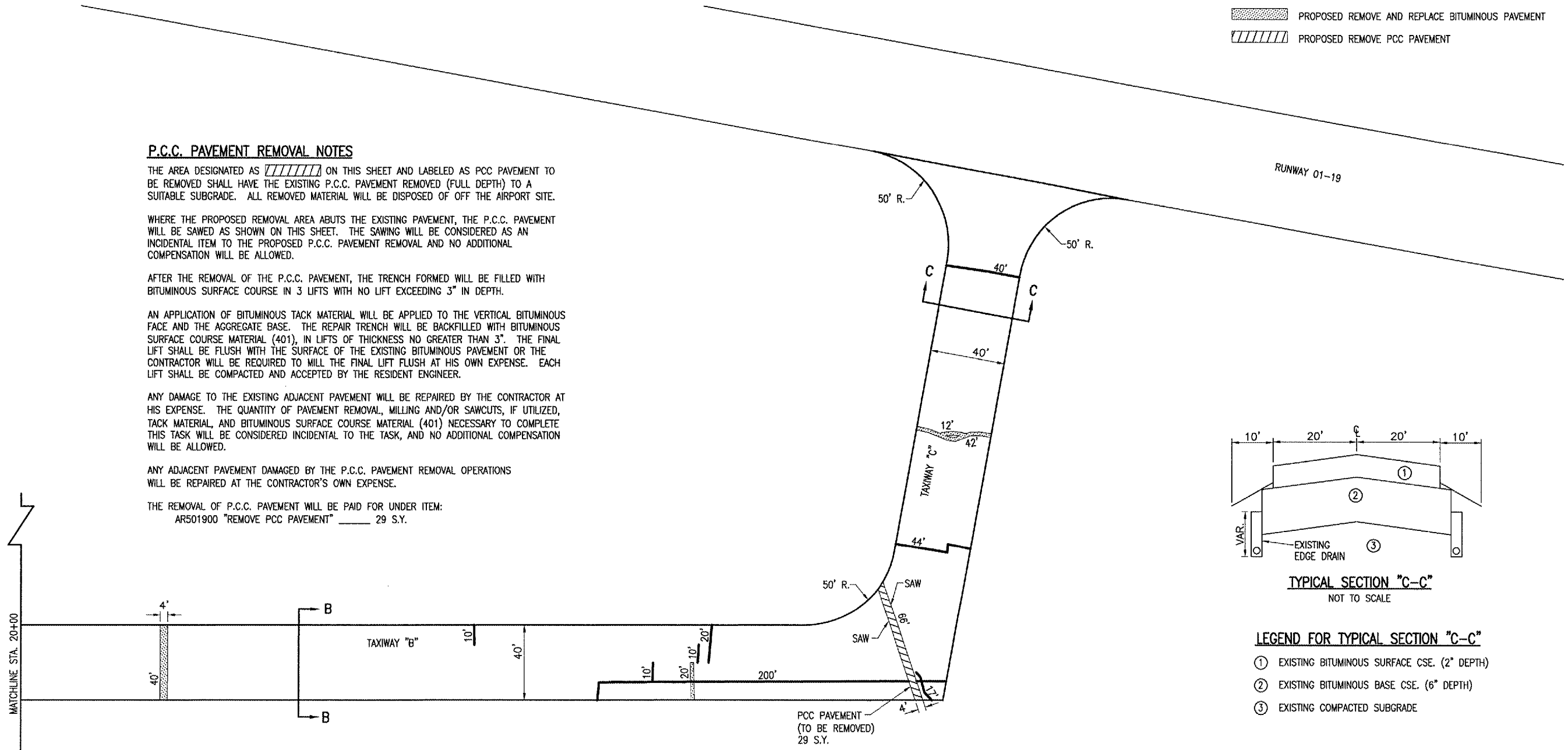
AFTER THE REMOVAL OF THE P.C.C. PAVEMENT, THE TRENCH FORMED WILL BE FILLED WITH BITUMINOUS SURFACE COURSE IN 3 LIFTS WITH NO LIFT EXCEEDING 3" IN DEPTH.

AN APPLICATION OF BITUMINOUS TACK MATERIAL WILL BE APPLIED TO THE VERTICAL BITUMINOUS FACE AND THE AGGREGATE BASE. THE REPAIR TRENCH WILL BE BACKFILLED WITH BITUMINOUS SURFACE COURSE MATERIAL (401), IN LIFTS OF THICKNESS NO GREATER THAN 3". THE FINAL LIFT SHALL BE FLUSH WITH THE SURFACE OF THE EXISTING BITUMINOUS PAVEMENT OR THE CONTRACTOR WILL BE REQUIRED TO MILL THE FINAL LIFT FLUSH AT HIS OWN EXPENSE. EACH LIFT SHALL BE COMPACTED AND ACCEPTED BY THE RESIDENT ENGINEER.

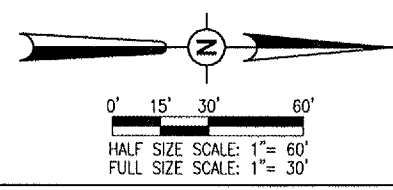
ANY DAMAGE TO THE EXISTING ADJACENT PAVEMENT WILL BE REPAIRED BY THE CONTRACTOR AT HIS EXPENSE. THE QUANTITY OF PAVEMENT REMOVAL, MILLING AND/OR SAWCUTS, IF UTILIZED, TACK MATERIAL, AND BITUMINOUS SURFACE COURSE MATERIAL (401) NECESSARY TO COMPLETE THIS TASK WILL BE CONSIDERED INCIDENTAL TO THE TASK, AND NO ADDITIONAL COMPENSATION WILL BE ALLOWED.

ANY ADJACENT PAVEMENT DAMAGED BY THE P.C.C. PAVEMENT REMOVAL OPERATIONS WILL BE REPAIRED AT THE CONTRACTOR'S OWN EXPENSE.

THE REMOVAL OF P.C.C. PAVEMENT WILL BE PAID FOR UNDER ITEM:  
 AR501900 "REMOVE PCC PAVEMENT" 29 S.Y.



- LEGEND FOR TYPICAL SECTION "C-C"**
- ① EXISTING BITUMINOUS SURFACE CSE. (2" DEPTH)
  - ② EXISTING BITUMINOUS BASE CSE. (6" DEPTH)
  - ③ EXISTING COMPACTED SUBGRADE



DATE	REVISION	BY

KEWANEE MUNICIPAL AIRPORT  
 KEWANEE, HENRY COUNTY, ILLINOIS  
 I.L. PROJ.: E21-3533 A.I.P. PROJ.: 3-17-0058-B10

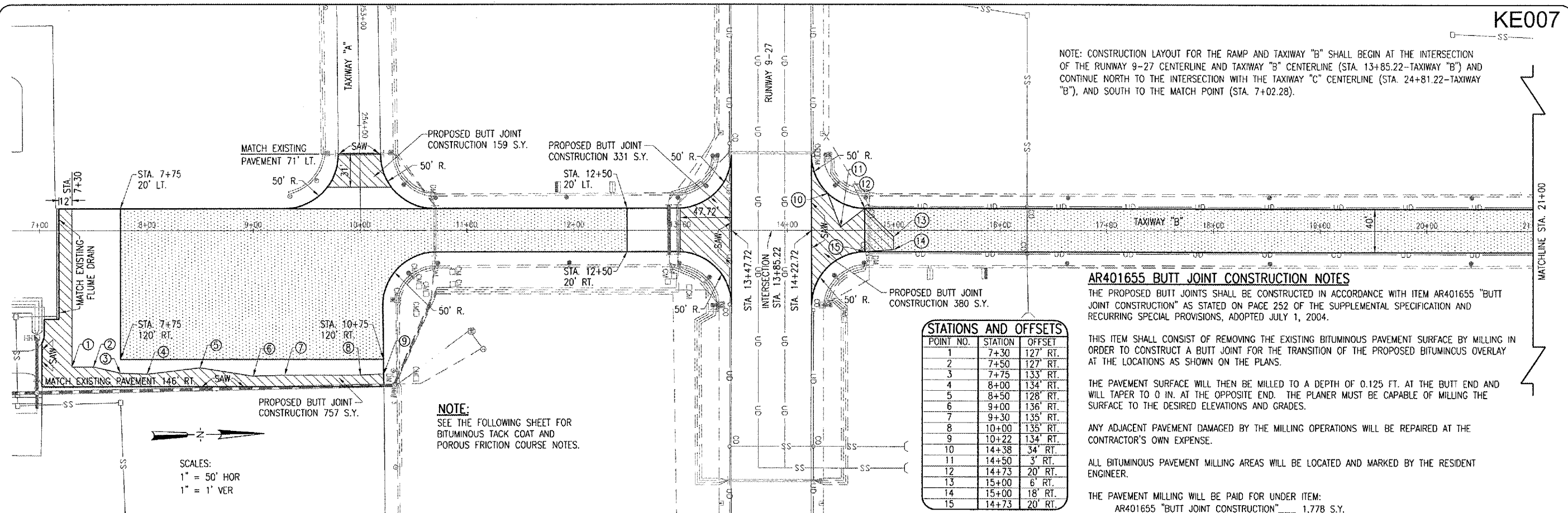
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Drawn R-111PRP.DWG	
Scale 1"=30'	
Date 08/25/05	
LAYOUT R.A.W. 08/25/05	
DRAWN B.A.K. 08/25/05	
REVIEWED C.A.H. xx/xx/xx	

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 Offices Nationwide

OVERLAY TXY & APRON  
 CONSTRUCT VAULT  
 PROPOSED PAVEMENT  
 PREPARATION PLAN  
 STA. 20+00 TO STA. 26+00



NOTE: CONSTRUCTION LAYOUT FOR THE RAMP AND TAXIWAY "B" SHALL BEGIN AT THE INTERSECTION OF THE RUNWAY 9-27 CENTERLINE AND TAXIWAY "B" CENTERLINE (STA. 13+85.22-TAXIWAY "B") AND CONTINUE NORTH TO THE INTERSECTION WITH THE TAXIWAY "C" CENTERLINE (STA. 24+81.22-TAXIWAY "B"), AND SOUTH TO THE MATCH POINT (STA. 7+02.28).



**STATIONS AND OFFSETS**

POINT NO.	STATION	OFFSET
1	7+30	127' RT.
2	7+50	127' RT.
3	7+75	133' RT.
4	8+00	134' RT.
5	8+50	128' RT.
6	9+00	136' RT.
7	9+30	135' RT.
8	10+00	135' RT.
9	10+22	134' RT.
10	14+38	34' RT.
11	14+50	3' RT.
12	14+73	20' RT.
13	15+00	6' RT.
14	15+00	18' RT.
15	14+73	20' RT.

**AR401655 BUTT JOINT CONSTRUCTION NOTES**

THE PROPOSED BUTT JOINTS SHALL BE CONSTRUCTED IN ACCORDANCE WITH ITEM AR401655 "BUTT JOINT CONSTRUCTION" AS STATED ON PAGE 252 OF THE SUPPLEMENTAL SPECIFICATION AND RECURRING SPECIAL PROVISIONS, ADOPTED JULY 1, 2004.

THIS ITEM SHALL CONSIST OF REMOVING THE EXISTING BITUMINOUS PAVEMENT SURFACE BY MILLING IN ORDER TO CONSTRUCT A BUTT JOINT FOR THE TRANSITION OF THE PROPOSED BITUMINOUS OVERLAY AT THE LOCATIONS AS SHOWN ON THE PLANS.

THE PAVEMENT SURFACE WILL THEN BE MILLED TO A DEPTH OF 0.125 FT. AT THE BUTT END AND WILL TAPER TO 0 IN. AT THE OPPOSITE END. THE PLANNER MUST BE CAPABLE OF MILLING THE SURFACE TO THE DESIRED ELEVATIONS AND GRADES.

ANY ADJACENT PAVEMENT DAMAGED BY THE MILLING OPERATIONS WILL BE REPAIRED AT THE CONTRACTOR'S OWN EXPENSE.

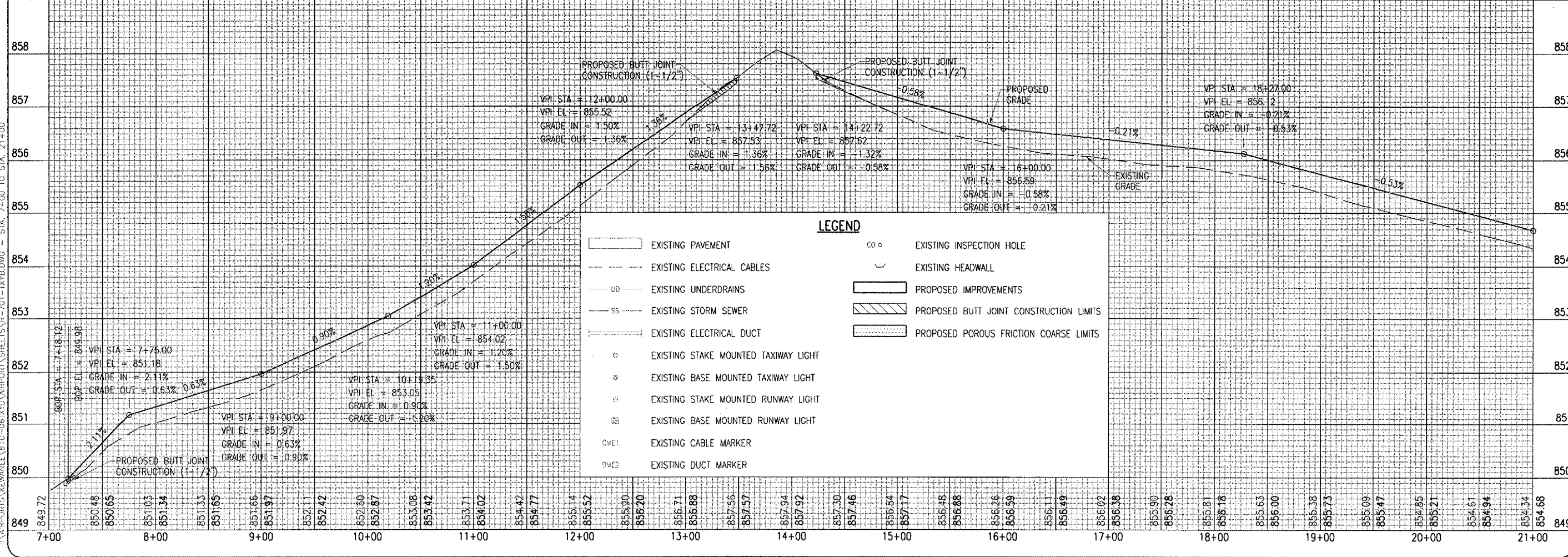
ALL BITUMINOUS PAVEMENT MILLING AREAS WILL BE LOCATED AND MARKED BY THE RESIDENT ENGINEER.

THE PAVEMENT MILLING WILL BE PAID FOR UNDER ITEM: AR401655 "BUTT JOINT CONSTRUCTION" 1,778 S.Y.

**NOTE:**  
SEE THE FOLLOWING SHEET FOR BITUMINOUS TACK COAT AND POROUS FRICTION COURSE NOTES.

SCALES:  
1" = 50' HOR  
1" = 1' VER

JAN 18, 2006 9:54 PM RAW  
I:\A\PROJECTS\KEWANEE\810-061XVD\PROJECT\SHEETS\R-701-TXWB.DWG - STA. 7+00 TO STA. 21+00



DATE: \_\_\_\_\_ REVISION: \_\_\_\_\_

BY: \_\_\_\_\_

PROJECT: KEWANEE MUNICIPAL AIRPORT  
KEWANEE, HENRY COUNTY, ILLINOIS

PROJECT NO.: 3-17-0058-B10  
I.L. PROJ.: E21-3533

DATE: 09/05/05  
LAYOUT: RAW  
DRAWN: RAW  
REVIEWED: CAH

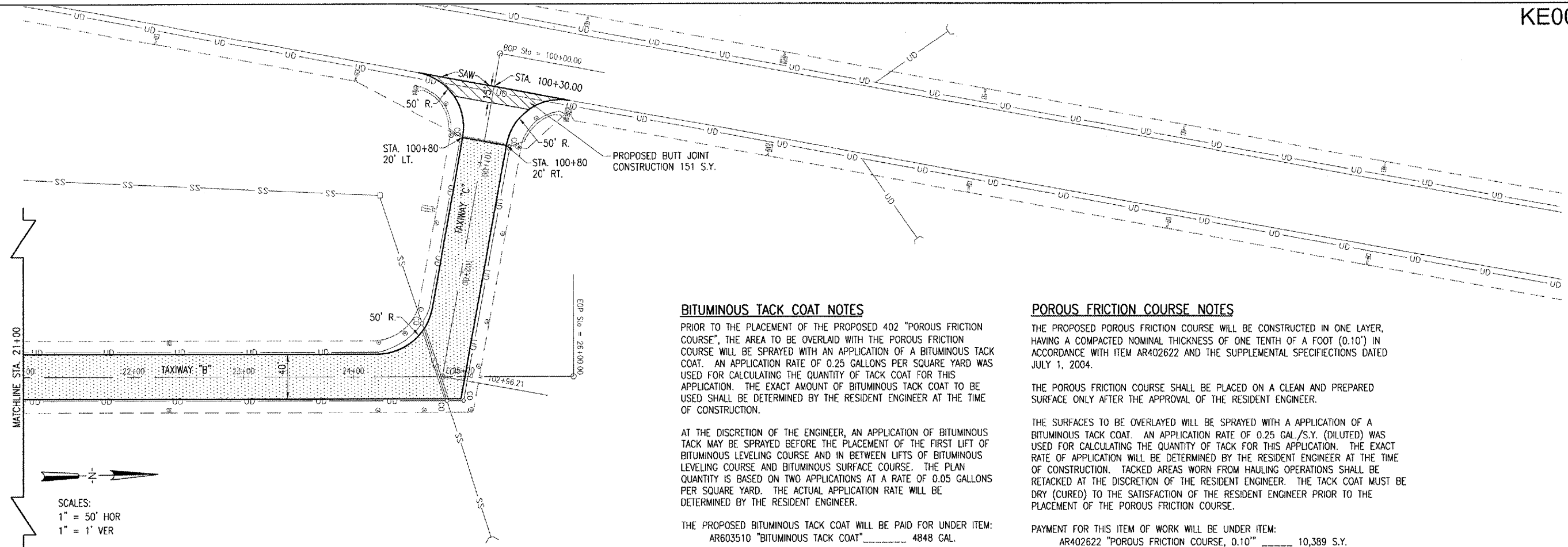
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Indianapolis, Indiana 46214  
Offices Nationwide

OVERLAY TXY & APRON  
CONSTRUCT VAULT

PROPOSED PLAN AND PROFILE  
TAXIWAY B  
STA. 7+00 TO STA. 21+00

8 of 67 sheets





**BITUMINOUS TACK COAT NOTES**

PRIOR TO THE PLACEMENT OF THE PROPOSED 402 "POROUS FRICTION COURSE", THE AREA TO BE OVERLAID WITH THE POROUS FRICTION COURSE WILL BE SPRAYED WITH AN APPLICATION OF A BITUMINOUS TACK COAT. AN APPLICATION RATE OF 0.25 GALLONS PER SQUARE YARD WAS USED FOR CALCULATING THE QUANTITY OF TACK COAT FOR THIS APPLICATION. THE EXACT AMOUNT OF BITUMINOUS TACK COAT TO BE USED SHALL BE DETERMINED BY THE RESIDENT ENGINEER AT THE TIME OF CONSTRUCTION.

AT THE DISCRETION OF THE ENGINEER, AN APPLICATION OF BITUMINOUS TACK MAY BE SPRAYED BEFORE THE PLACEMENT OF THE FIRST LIFT OF BITUMINOUS LEVELING COURSE AND IN BETWEEN LIFTS OF BITUMINOUS LEVELING COURSE AND BITUMINOUS SURFACE COURSE. THE PLAN QUANTITY IS BASED ON TWO APPLICATIONS AT A RATE OF 0.05 GALLONS PER SQUARE YARD. THE ACTUAL APPLICATION RATE WILL BE DETERMINED BY THE RESIDENT ENGINEER.

THE PROPOSED BITUMINOUS TACK COAT WILL BE PAID FOR UNDER ITEM: AR603510 "BITUMINOUS TACK COAT" \_\_\_\_\_ 4848 GAL.

**POROUS FRICTION COURSE NOTES**

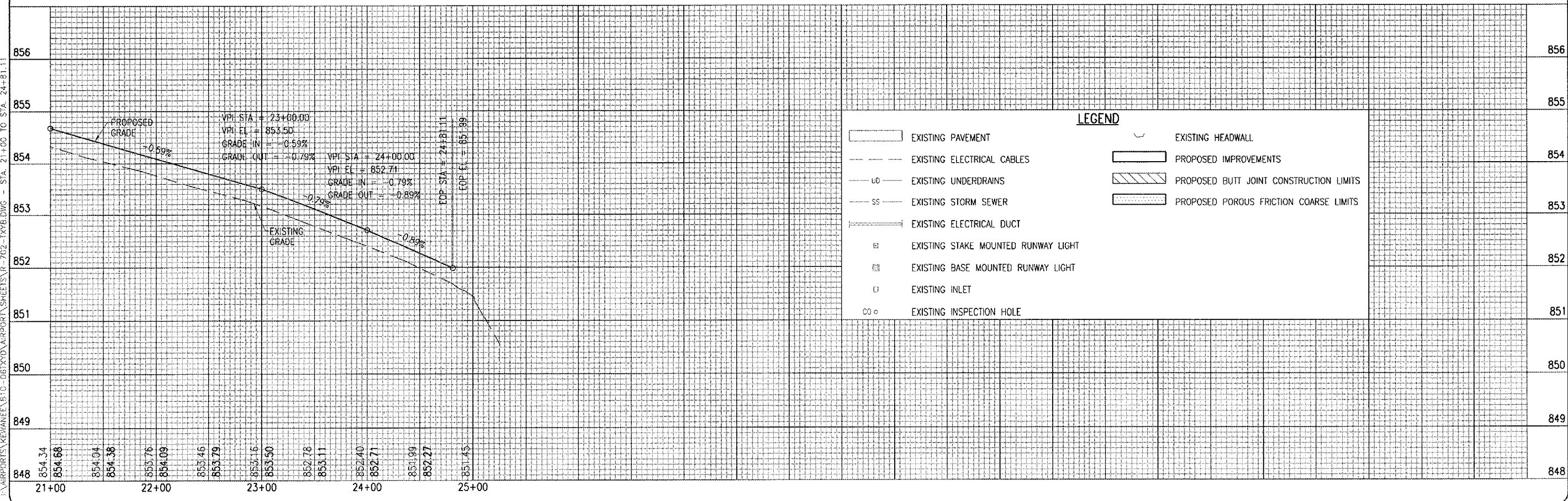
THE PROPOSED POROUS FRICTION COURSE WILL BE CONSTRUCTED IN ONE LAYER, HAVING A COMPACTED NOMINAL THICKNESS OF ONE TENTH OF A FOOT (0.10') IN ACCORDANCE WITH ITEM AR402622 AND THE SUPPLEMENTAL SPECIFICATIONS DATED JULY 1, 2004.

THE POROUS FRICTION COURSE SHALL BE PLACED ON A CLEAN AND PREPARED SURFACE ONLY AFTER THE APPROVAL OF THE RESIDENT ENGINEER.

THE SURFACES TO BE OVERLAID WILL BE SPRAYED WITH AN APPLICATION OF A BITUMINOUS TACK COAT. AN APPLICATION RATE OF 0.25 GAL./S.Y. (DILUTED) WAS USED FOR CALCULATING THE QUANTITY OF TACK FOR THIS APPLICATION. THE EXACT RATE OF APPLICATION WILL BE DETERMINED BY THE RESIDENT ENGINEER AT THE TIME OF CONSTRUCTION. TACKED AREAS WORN FROM HAULING OPERATIONS SHALL BE RETACKED AT THE DISCRETION OF THE RESIDENT ENGINEER. THE TACK COAT MUST BE DRY (CURED) TO THE SATISFACTION OF THE RESIDENT ENGINEER PRIOR TO THE PLACEMENT OF THE POROUS FRICTION COURSE.

PAYMENT FOR THIS ITEM OF WORK WILL BE UNDER ITEM: AR402622 "POROUS FRICTION COURSE, 0.10" \_\_\_\_\_ 10,389 S.Y.

JAN 18, 2008 9:56 PM RAW I:\AIRPORTS\KEWANEE\B10-061\XD\AIRPORT\SHETS\B-702-TXB.DWG - STA. 21+00 TO STA. 24+81.11



**LEGEND**

	EXISTING PAVEMENT		EXISTING HEADWALL
	EXISTING ELECTRICAL CABLES		PROPOSED IMPROVEMENTS
	EXISTING UNDERDRAINS		PROPOSED BUTT JOINT CONSTRUCTION LIMITS
	EXISTING STORM SEWER		PROPOSED POROUS FRICTION COURSE LIMITS
	EXISTING ELECTRICAL DUCT		
	EXISTING STAKE MOUNTED RUNWAY LIGHT		
	EXISTING BASE MOUNTED RUNWAY LIGHT		
	EXISTING INLET		
	EXISTING INSPECTION HOLE		

DATE	REVISION	BY

KEWANEE MUNICIPAL AIRPORT  
KEWANEE, HENRY COUNTY, ILLINOIS

IL PROJ.: E21-3533 A.I.P. PROJ.: 3-17-0058-B10

PROJECT No. 810-061XXD_0800	DATE 09/05/05
CLIENT R-792-TXB.DWG	SCALE 1"=50'
DRAWN 09/05/05	REVIEWED CAH
DRAWN RAW	REVIEWED CAH
DRAWN RAW	REVIEWED CAH

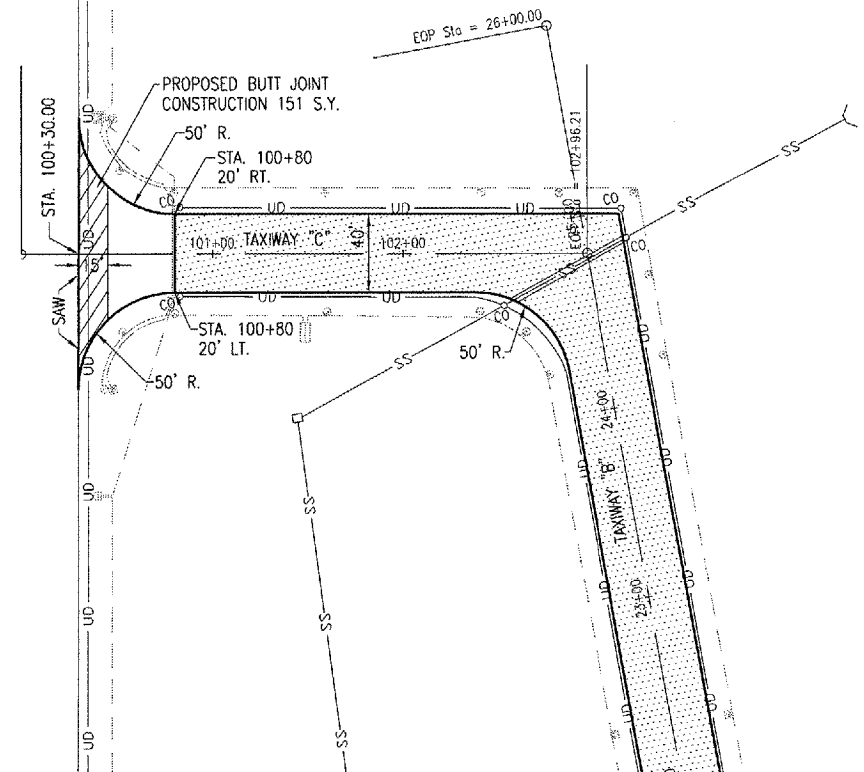
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OVERLAY TXY & APRON  
CONSTRUCT VAULT

PROPOSED PLAN AND PROFILE  
TAXIWAY B  
STA. 21+00 TO STA. 24+81.11

- LEGEND**
- EXISTING PAVEMENT
  - EXISTING ELECTRICAL CABLES
  - EXISTING UNDERDRAINS
  - EXISTING STORM SEWER
  - EXISTING ELECTRICAL DUCT
  - EXISTING STAKE MOUNTED RUNWAY LIGHT
  - EXISTING BASE MOUNTED RUNWAY LIGHT
  - EXISTING INLET
  - EXISTING INSPECTION HOLE
  - EXISTING HEADWALL
  - PROPOSED IMPROVEMENTS
  - PROPOSED BUTT JOINT CONSTRUCTION LIMITS
  - PROPOSED POROUS FRICTION COARSE LIMITS

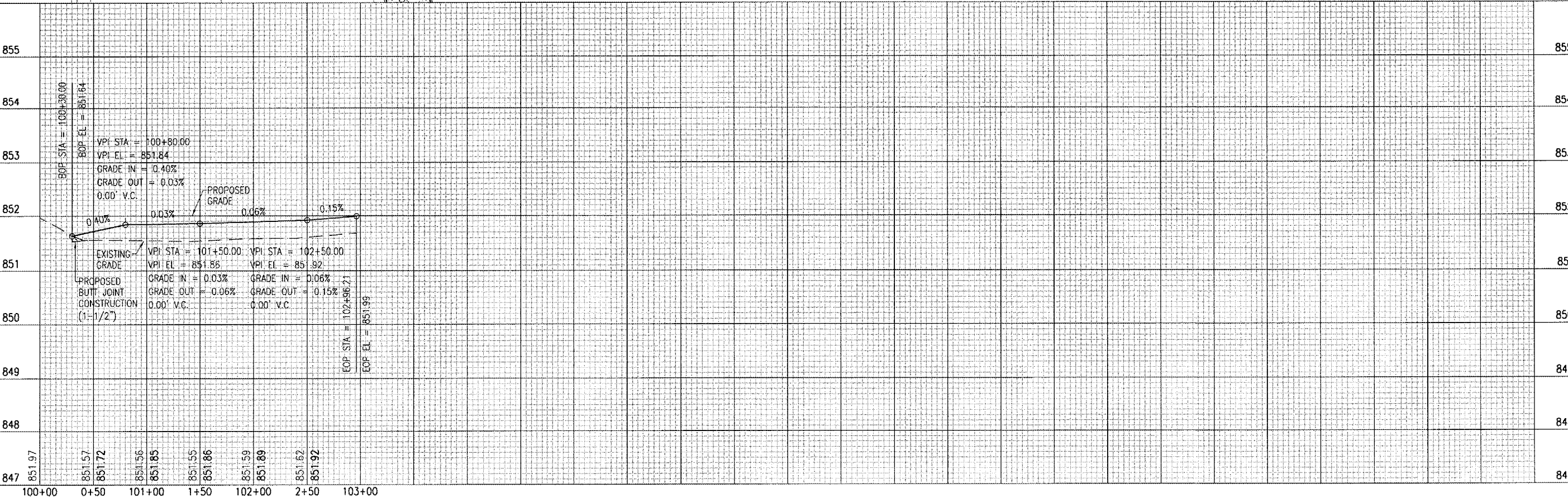


NOTE: CONSTRUCTION LAYOUT FOR TAXIWAY "C" SHALL BEGIN AT THE INTERSECTION OF THE RUNWAY 1-19 PAVEMENT EDGE (STA. 100+00-TAXIWAY "C") AND THE TAXIWAY "C" CENTERLINE AND CONTINUE EAST TO THE INTERSECTION WITH THE TAXIWAY "B" CENTERLINE (STA. 102+96.21-TAXIWAY "C").



SCALES:  
1" = 50' HOR  
1" = 1' VER

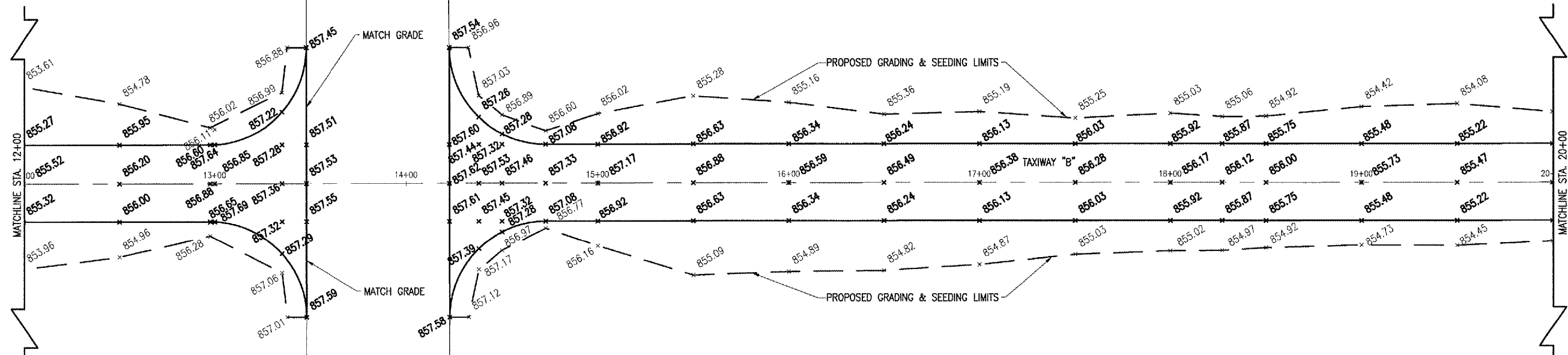
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I:\AIRPORTS\KEWANEE\810-061XYD\AIRPORT\SHEETS\R-703-TXCYC.DWG - STA. 100+00 TO STA. 102+96.21



DATE	REVISION	BY	KEWANEE MUNICIPAL AIRPORT KEWANEE, HENRY COUNTY, ILLINOIS ILL. PROJ.: E21-3533      A.I.P. PROJ.: 3-17-0058-B10
H&E Project No. 810-061XYD.0600 Elevation R-703-TXCYC.DWG Scale 1" = 50' Date 09/05/05			LAYOUT 09/05/05 DRAWN 09/05/05 REVIEWED xx/xx/xx
Hanson Professional Services Inc. 3125 Dandy Trail, Suite 100 Indianapolis, Indiana 46214 Offices Nationwide			
OVERLAY TXY & APRON CONSTRUCT VAULT PROPOSED PLAN AND PROFILE TAXIWAY C STA. 100+00 TO STA. 102+96.21			10 10 of 67 sheets



JAN 18, 2006 9:52 PM RAW  
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NOTE: WHERE PROPOSED PAVEMENTS ARE SHOWN TO MATCH EXISTING PAVEMENT GRADES, IF A DIFFERENCE EXISTS BETWEEN THE EXISTING PAVEMENT ELEVATION AND THE PROPOSED PAVEMENT ELEVATION SHOWN, THE PROPOSED PAVEMENT WILL BE CONSTRUCTED TO MATCH THE EXISTING ELEVATION PRESENT.

**LEGEND**

	EXISTING PAVEMENT
	PROPOSED IMPROVEMENTS
	EXISTING GRADE
	PROPOSED GRADE
	PROPOSED GRADING AND SEEDING LIMITS

KE007

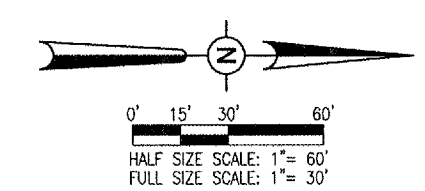
DATE	REVISION	BY

KEWANEE MUNICIPAL AIRPORT  
 KEWANEE, HENRY COUNTY, ILLINOIS  
 A.I.P. PROJ.: 3-17-0058-B10  
 I.L. PROJ.: E21-3533

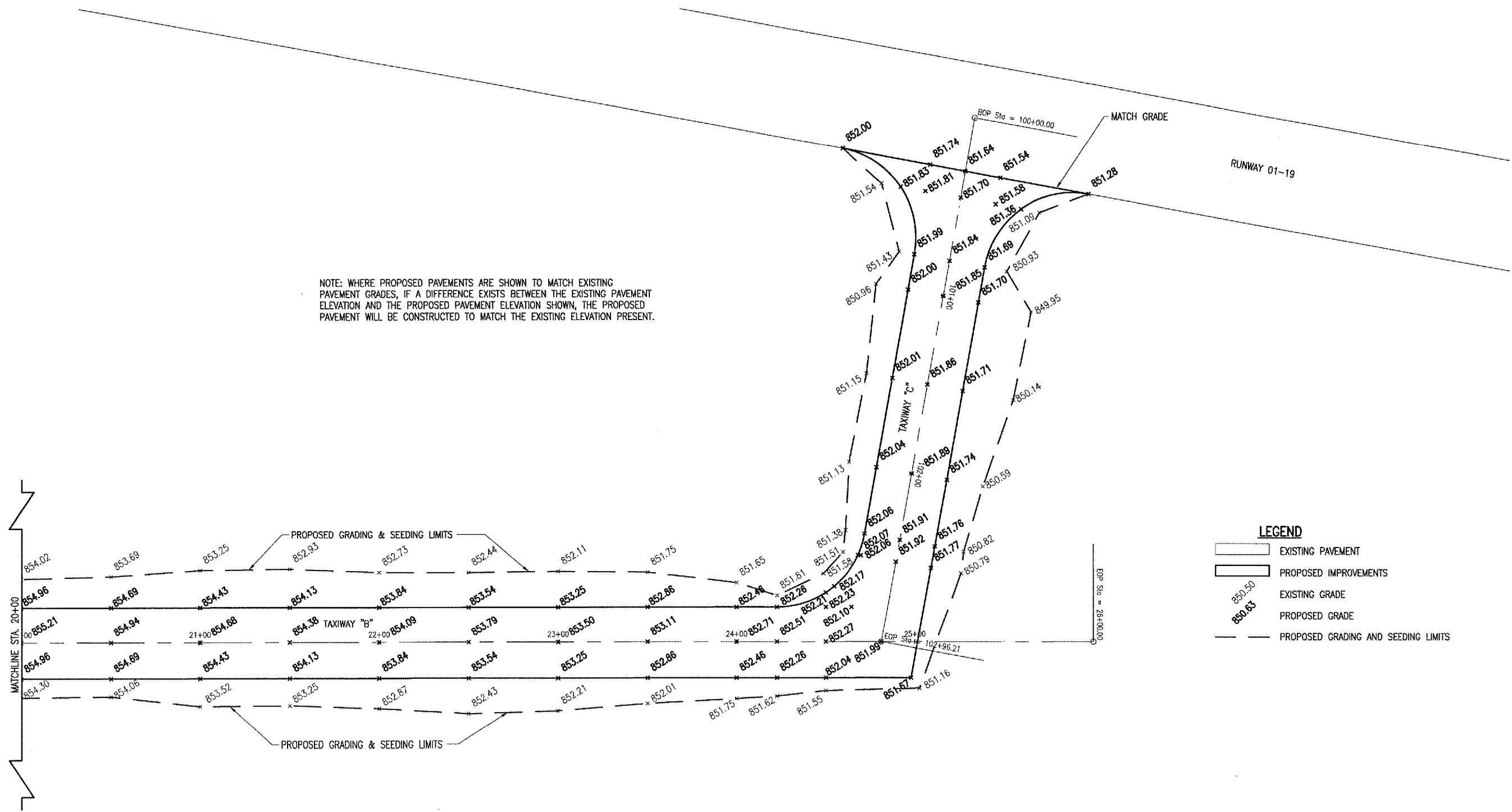
Project No.	810-06TXYD_0800
Drawings	R-191STK.DWG
Scale	1"=30'
Date	08/30/05
LAYOUT	R.A.W. 08/30/05
DRAWN	B.A.K. 08/30/05
REVIEWED	C.A.H. xx/xx/xx



OVERLAY TXY & APRON  
 CONSTRUCT VAULT  
 PROPOSED  
 STAKING PLAN  
 STA. 12+00 TO STA. 20+00



JAN 18, 2006 9:52 PM RAW  
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**LEGEND**

- EXISTING PAVEMENT
- PROPOSED IMPROVEMENTS
- EXISTING GRADE
- PROPOSED GRADE
- PROPOSED GRADING AND SEEDING LIMITS

0' 15' 30' 60'  
 HALF SIZE SCALE: 1" = 60'  
 FULL SIZE SCALE: 1" = 30'

DATE	REVISION	BY

**KEWANEE MUNICIPAL AIRPORT**  
 KEWANEE, HENRY COUNTY, ILLINOIS  
 IL PROJ.: EZI-3533 A.I.P. PROJ.: 3-17-0058-B10

PL. Project No. 810-06TXYD_0800	File Name R-191STK.DWG	Scale 1"=30'	Date 08/30/05
LAYOUT	R.A.W.	08/30/05	
DRAWN	B.A.K.	08/30/05	
REVIEWED	C.A.H.	xx/xx/xx	

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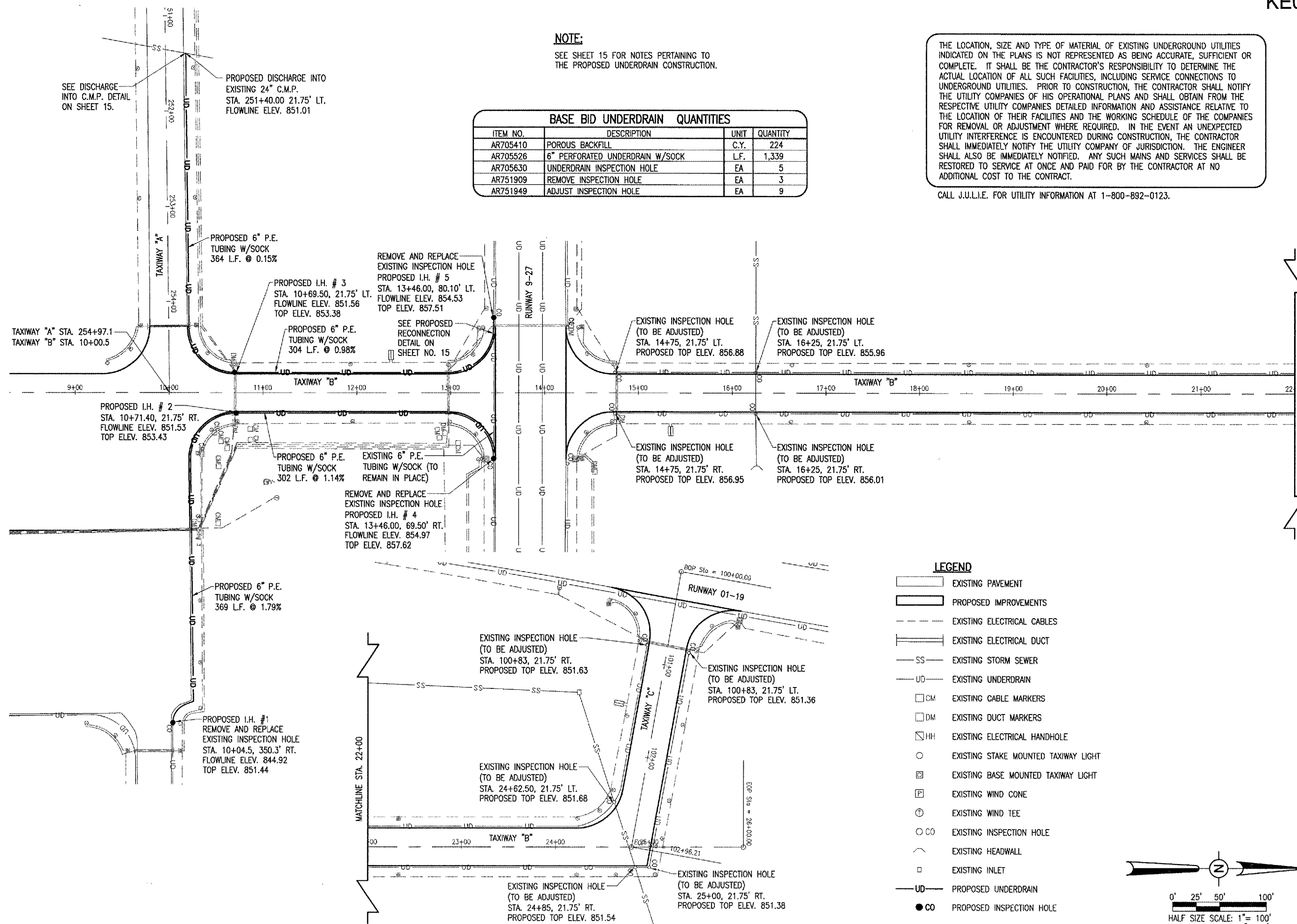
**OVERLAY TXY & APRON  
 CONSTRUCT VAULT**  
 PROPOSED  
 STAKING PLAN  
 STA. 20+00 TO STA. 26+00

**NOTE:**  
SEE SHEET 15 FOR NOTES PERTAINING TO THE PROPOSED UNDERDRAIN CONSTRUCTION.

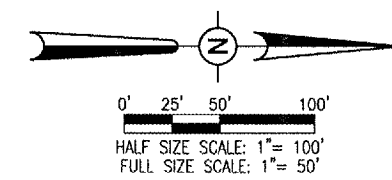
BASE BID UNDERDRAIN QUANTITIES			
ITEM NO.	DESCRIPTION	UNIT	QUANTITY
AR705410	POROUS BACKFILL	C.Y.	224
AR705526	6" PERFORATED UNDERDRAIN W/SOCK	L.F.	1,339
AR705630	UNDERDRAIN INSPECTION HOLE	EA	5
AR751909	REMOVE INSPECTION HOLE	EA	3
AR751949	ADJUST INSPECTION HOLE	EA	9

THE LOCATION, SIZE AND TYPE OF MATERIAL OF EXISTING UNDERGROUND UTILITIES INDICATED ON THE PLANS IS NOT REPRESENTED AS BEING ACCURATE, SUFFICIENT OR COMPLETE. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE THE ACTUAL LOCATION OF ALL SUCH FACILITIES, INCLUDING SERVICE CONNECTIONS TO UNDERGROUND UTILITIES. PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL NOTIFY THE UTILITY COMPANIES OF HIS OPERATIONAL PLANS AND SHALL OBTAIN FROM THE RESPECTIVE UTILITY COMPANIES DETAILED INFORMATION AND ASSISTANCE RELATIVE TO THE LOCATION OF THEIR FACILITIES AND THE WORKING SCHEDULE OF THE COMPANIES FOR REMOVAL OR ADJUSTMENT WHERE REQUIRED. IN THE EVENT AN UNEXPECTED UTILITY INTERFERENCE IS ENCOUNTERED DURING CONSTRUCTION, THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE UTILITY COMPANY OF JURISDICTION. THE ENGINEER SHALL ALSO BE IMMEDIATELY NOTIFIED. ANY SUCH MAINS AND SERVICES SHALL BE RESTORED TO SERVICE AT ONCE AND PAID FOR BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE CONTRACT.

CALL J.U.L.I.E. FOR UTILITY INFORMATION AT 1-800-892-0123.



- LEGEND**
- EXISTING PAVEMENT
  - PROPOSED IMPROVEMENTS
  - EXISTING ELECTRICAL CABLES
  - EXISTING ELECTRICAL DUCT
  - EXISTING STORM SEWER
  - EXISTING UNDERDRAIN
  - EXISTING CABLE MARKERS
  - EXISTING DUCT MARKERS
  - EXISTING ELECTRICAL HANDHOLE
  - EXISTING STAKE MOUNTED TAXIWAY LIGHT
  - EXISTING BASE MOUNTED TAXIWAY LIGHT
  - EXISTING WIND CONE
  - EXISTING WIND TEE
  - EXISTING INSPECTION HOLE
  - EXISTING HEADWALL
  - EXISTING INLET
  - PROPOSED UNDERDRAIN
  - PROPOSED INSPECTION HOLE



DATE	REVISION	BY

**Kewanee Municipal Airport**  
**Kewanee, Henry County, Illinois**

IL PROJ.: E21-3533 A.I.P. PROJ.: 3-17-0058-810

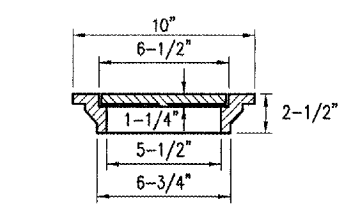
HD Project No. 810-06TXXD 0800	RAW	12/20/05
Drawn: R-13.DRN.DWG	BAK	12/20/05
Scale: 1"=50'	CAH	xx/xx/xx
Date: 12/20/05		



**OVERLAY TXY & APRON CONSTRUCT VAULT**

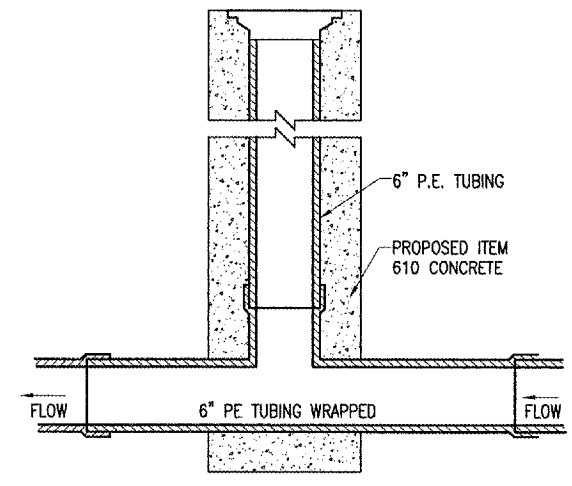
PROPOSED DRAINAGE PLAN

JAN 18, 2006 11:27 PM RAW I:\AIRPORTS\KEWANEE\810-06TXXD\AIRPORT\SHETS\R-13.DRN.DWG - UNDERDRAINS



**CAST IRON FRAME AND COVER**

NEENAH R-6013, DEETER 1810,  
EAST JORDAN 2790-6 OR  
APPROVED EQUAL



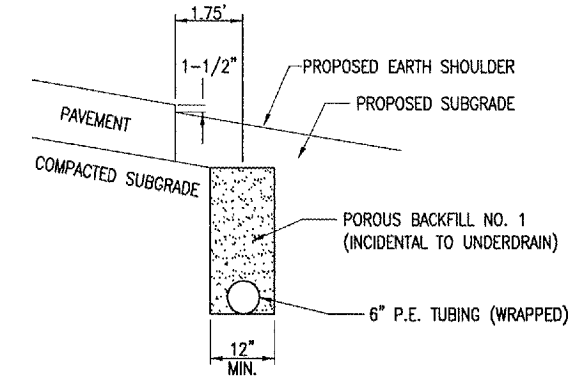
**INSPECTION HOLE-TYPE B**

**INSPECTION HOLE NOTES**

DIAMETER OF PIPE AS SPECIFIED.  
TOP OF INSPECTION HOLES SHALL BE 2" ABOVE FINISH GROUND LINE AT LOCATION SHOWN ON PLANS.  
1/2" CHAMFER TO BE USED ON ALL EXPOSED EDGES OF INSPECTION HOLES.  
THE CONCRETE SHALL BE STRUCTURAL PORTLAND CEMENT CONCRETE (NON-REINFORCED).  
THE PROPOSED UNDERDRAIN INSPECTION HOLES WILL BE PAID FOR UNDER ITEM AR705530 UNDERDRAIN INSPECTION HOLE \_\_\_\_\_ 5 EACH.

**POROUS BACKFILL NOTES**

THE QUANTITY OF POROUS BACKFILL WAS CALCULATED USING AN AVERAGE DEPTH OF 36" AND AVERAGE WIDTH OF 18". THE MINIMUM TRENCH WIDTH IS 12".



**UNDERDRAIN DETAIL**  
NOT TO SCALE

**705-UNDERDRAIN NOTES:**

THE PROPOSED UNDERDRAIN PIPE WILL BE CONSTRUCTED IN ACCORDANCE WITH ITEM 705 "PIPE UNDERDRAINS FOR AIRPORTS" AS STATED ON PAGE 109 OF THE SUPPLEMENTAL SPECIFICATIONS AND RECURRING SPECIAL PROVISIONS, ADOPTED JULY 1, 2004.

THIS ITEM OF WORK SHALL CONSIST OF FURNISHING AND INSTALLING 6" P.E. TUBING (WRAPPED) AND UNDERDRAIN INSPECTION HOLES AT THE LOCATIONS AND TO THE GRADES SHOWN ON THE CONSTRUCTION PLANS.

705-3.3 LAYING AND INSTALLING PIPE. REVISE THIS SECTION AS FOLLOWS:

"PIPE DRAINS SHALL BE INSTALLED AT THE LOCATIONS SHOWN ON THE PLANS OR AS DIRECTED BY THE RESIDENT ENGINEER. THE PIPE SHALL BE BEDDED IN THE UNDERLYING MATERIAL TO A DEPTH NOT LESS THAN 10 PERCENT OF THE EXTERNAL DIAMETER OF THE PIPE, AND WHERE TRENCHING IS REQUIRED, THE TRENCH SHALL HAVE A WIDTH OF NOT LESS 12 IN. THE BOTTOM OF THE TRENCH SHALL BE COMPACTED IN A MANNER MEETING THE APPROVAL OF THE ENGINEER.

JOINTS AND FITTINGS MAY BE ASSEMBLED WITHOUT GASKETS OR SOLVENT CEMENT IF THE JOINT IS SAND TIGHT AND THE SPIGOT ENTERS THE SOCKET NOT LESS THAN 1/3 OF THE SOCKET DEPTH FOR SOLVENT CEMENT JOINTS AND FULL-DEPTH FOR ELASTOMERIC GASKET JOINTS.

NO PIPE SHALL BE PLACED IN THE TRENCH UNTIL IT AND THE PREPARED FOUNDATION HAVE BEEN APPROVED BY THE RESIDENT ENGINEER. THE PIPE SHALL BE LAID SO THAT THE FLOWLINE WILL BE AT THE GRADE SHOWN ON THE PLANS OR ESTABLISHED BY THE RESIDENT ENGINEER. THE PERMISSIBLE MINIMUM COVER OVER A PIPE SHALL BE 6 IN.

LAYING OF PIPES SHALL COMMENCE AT THE OUTLET END AND PROCEED TOWARD THE INLET END WITH THE PIPES TRUE TO LINE AND GRADE.

THE ENDS OF THE PIPE SHALL BE CAREFULLY CLEANED BEFORE THEY ARE PLACED, AND SHALL BE PLACED TO AVOID UNNECESSARY HANDLING ON THE FOUNDATION. AS EACH LENGTH OF PIPE IS LAID, THE ENDS OF THE PIPE SHALL BE PROTECTED TO PREVENT THE ENTRANCE OF ANY MATERIAL.

LONGITUDINAL LAPS SHALL BE PLACED AT THE SIDES AND SEPARATE SECTIONS OF PIPE SHALL BE JOINED WITH TIGHTLY-DRAWN, APPROVED CONNECTING BANDS.

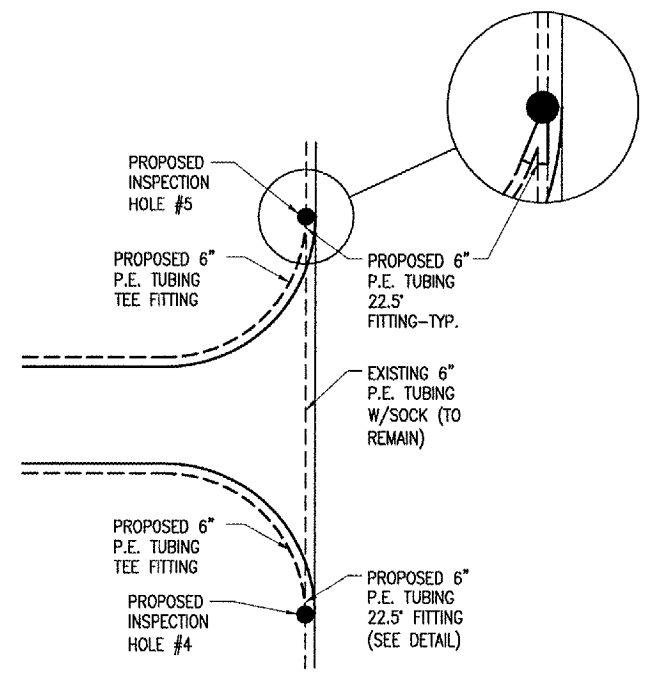
THE TRENCH SHALL BE BACKFILLED WITH SELECT MATERIAL, MEETING THE APPROVAL OF THE ENGINEER, PLACED IN 8 IN. LAYERS, LOOSE MEASUREMENT, AND COMPACTED TO THE ENGINEER'S SATISFACTION."

705-3.6 BACKFILLING; ADD THE FOLLOWING TO THIS SECTION:

"THE EDGE DRAIN TRENCH WILL BE BACKFILLED WITH POROUS BACKFILL IDOT (CA-14 OR CA-16) IN ACCORDANCE WITH THE DETAIL ON THE CONSTRUCTION PLANS. THE POROUS BACKFILL WILL BE COMPACTED TO THE SATISFACTION OF THE RESIDENT ENGINEER.

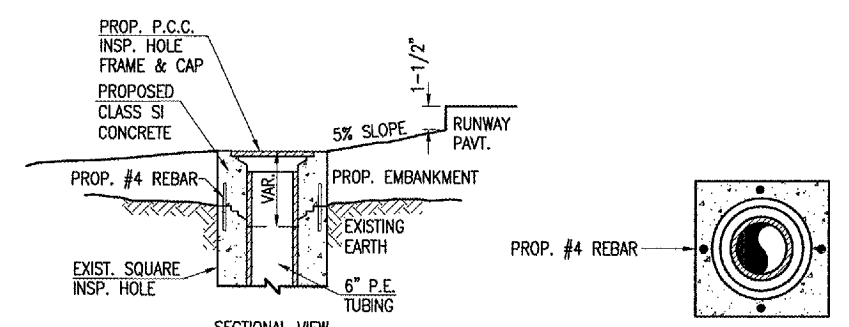
THE PROPOSED UNDERDRAIN PIPE WILL BE PAID FOR UNDER ITEM: AR705526 6" PERFORATED UNDERDRAIN W/SOCK \_\_\_\_\_ 1,339 L.F.

THE PROPOSED POROUS BACKFILL WILL BE PAID FOR UNDER ITEM: AR705410 POROUS BACKFILL \_\_\_\_\_ 224 C.Y.

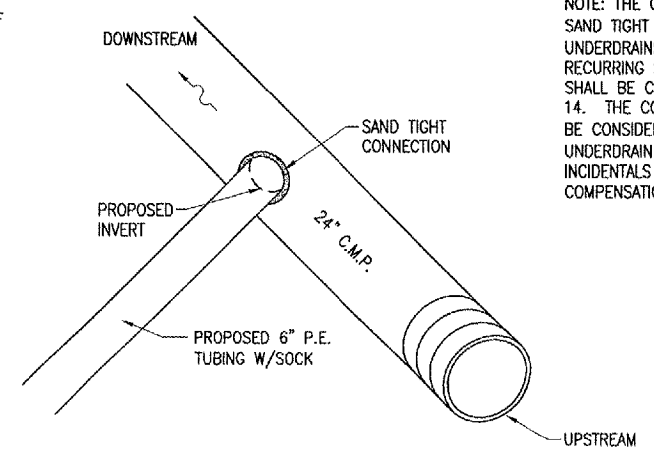
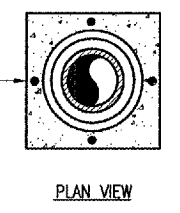


**PROPOSED RECONNECTION DETAIL**  
NOT TO SCALE

NOTE: THE RECONNECTION OF THE UNDERDRAIN SHOWN IN THE DETAIL ABOVE SHALL USE STANDARD PE TUBING FITTINGS. THE CONNECTION OF THE FITTINGS WILL BE IN ACCORDANCE WITH ITEM 705 "PIPE UNDERDRAINS FOR AIRPORTS" INCLUDED IN THE SUPPLEMENTAL AND RECURRING SPECIAL PROVISIONS DATED JULY 1, 2004. THE RECONNECTION OF THE UNDERDRAIN SHALL BE CONSIDERED INCIDENTAL TO ITEM AR70526 - 6" PERFORATED UNDERDRAIN W/SOCK, INCLUDING ALL LABOR, MATERIALS, AND INCIDENTALS NECESSARY TO COMPLETE THE TASK, AND NO ADDITIONAL COMPENSATION WILL BE ALLOWED.



**INSPECTION HOLE ADJUSTMENT DETAIL**  
"NOT TO SCALE"



**DISCHARGE INTO C.M.P. DETAIL**  
NOT TO SCALE

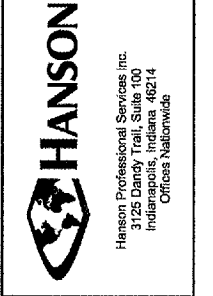
NOTE: THE CONNECTION OF THE UNDERDRAIN INTO THE 24" CMP WILL BE SAND TIGHT IN NATURE, IN ACCORDANCE WITH ITEM 705 "PIPE UNDERDRAINS FOR AIRPORTS" INCLUDED IN THE SUPPLEMENTAL AND RECURRING SPECIAL PROVISIONS DATED JULY 1, 2004. THE CONNECTION SHALL BE CONSTRUCTED TO THE INVERT ELEVATION SHOWN ON SHEET 14. THE CONNECTION OF THE UNDERDRAIN TO THE EXISTING CMP SHALL BE CONSIDERED INCIDENTAL TO ITEM AR70526 - 6" PERFORATED UNDERDRAIN W/SOCK, INCLUDING ALL LABOR, MATERIALS, AND INCIDENTALS NECESSARY TO COMPLETE THE TASK, AND NO ADDITIONAL COMPENSATION WILL BE ALLOWED.

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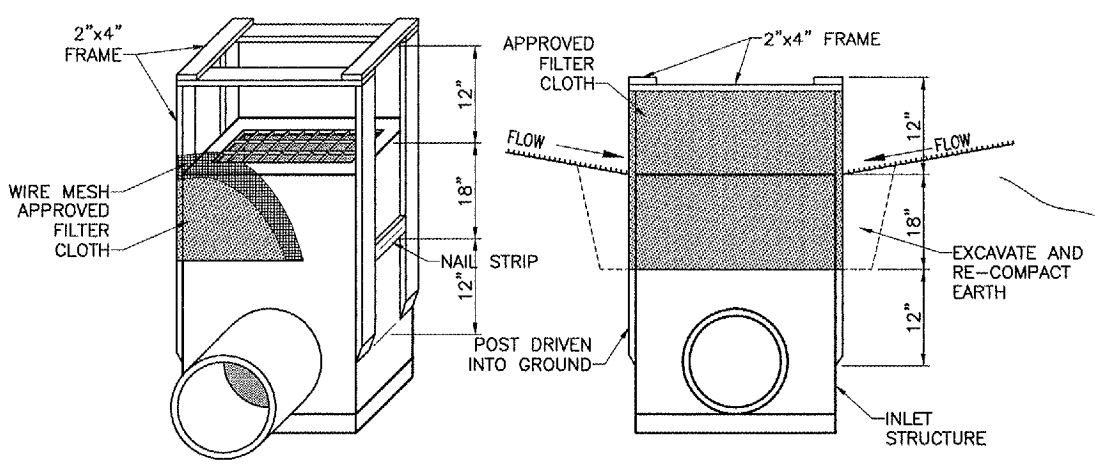
BY	
REVISION	
DATE	

KEWANEE MUNICIPAL AIRPORT  
KEWANEE, HENRY COUNTY, ILLINOIS  
A.I.P. PROJ.: 3-17-0058-810  
IL PROJ.: EZI-3533

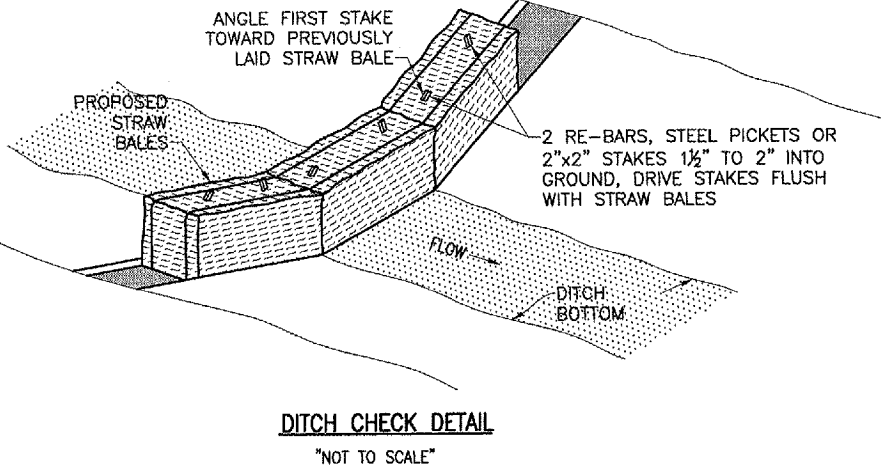
HEL Project No. 810-067XXD.0800	RAW	12/20/05
Drawn: R-531DRN.DWG	BAK	12/20/05
Scale: N/A	CAH	xx/xx/xx
Date: 12/20/05		



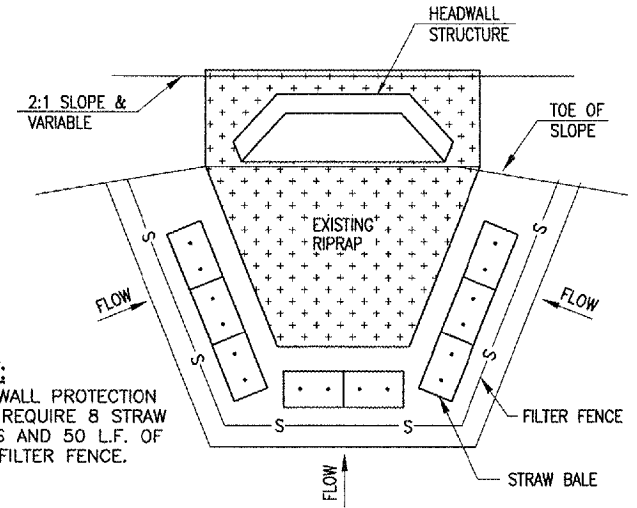
OVERLAY TXY & APRON  
CONSTRUCT VAULT  
UNDERDRAIN  
NOTES AND DETAILS



**INLET PROTECTION DETAIL**  
"NOT TO SCALE"



**DITCH CHECK DETAIL**  
"NOT TO SCALE"

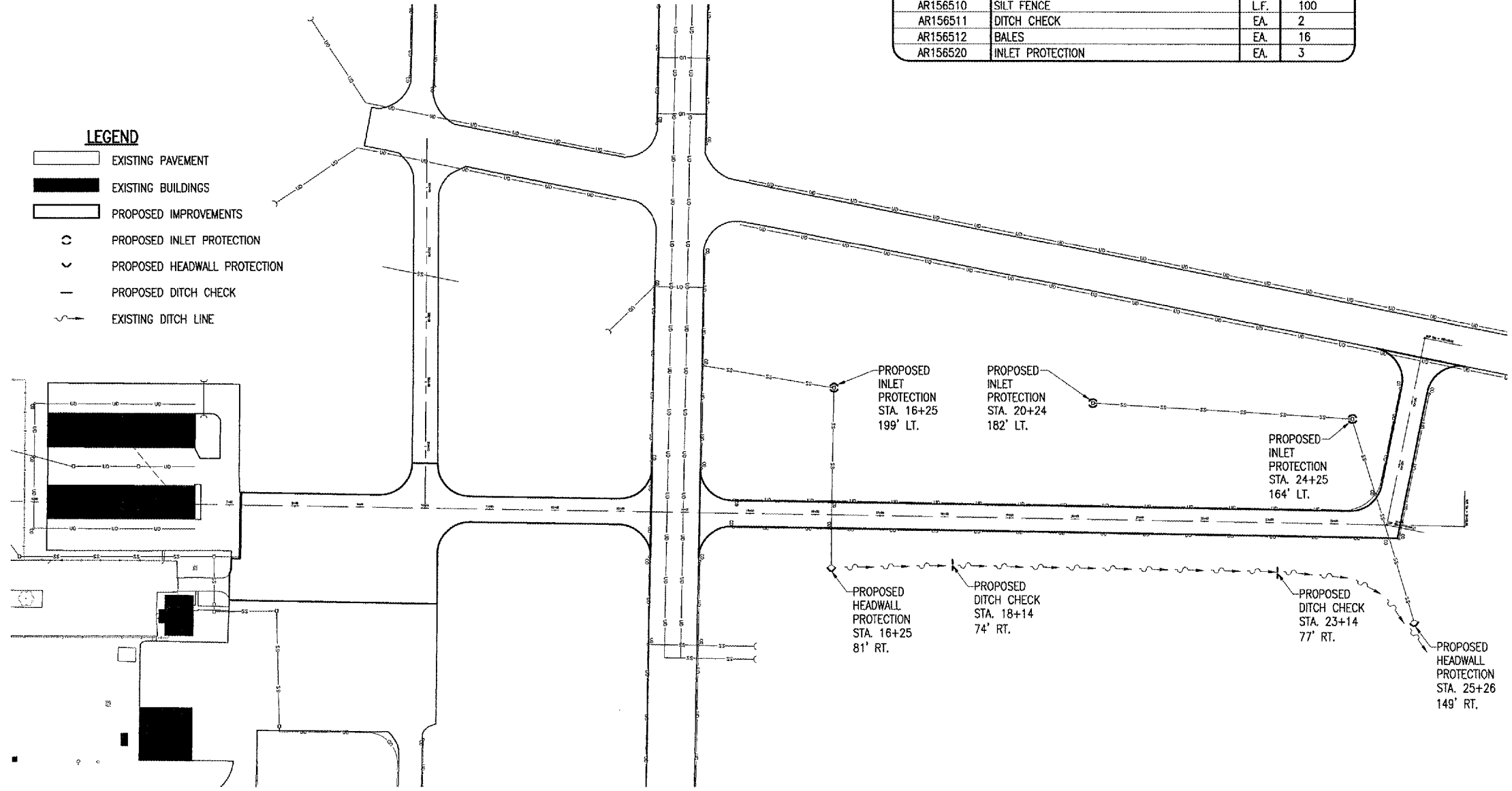


**HEADWALL STRUCTURE PROTECTION**  
"NOT TO SCALE"

**NOTE:**  
HEADWALL PROTECTION WILL REQUIRE 8 STRAW BALES AND 50 L.F. OF SILT FILTER FENCE.

EROSION CONTROL QUANTITIES			
ITEM NO.	DESCRIPTION	UNIT	QUANTITY
AR156510	SILT FENCE	L.F.	100
AR156511	DITCH CHECK	EA.	2
AR156512	BALES	EA.	16
AR156520	INLET PROTECTION	EA.	3

- LEGEND**
- EXISTING PAVEMENT
  - EXISTING BUILDINGS
  - PROPOSED IMPROVEMENTS
  - PROPOSED INLET PROTECTION
  - PROPOSED HEADWALL PROTECTION
  - PROPOSED DITCH CHECK
  - EXISTING DITCH LINE



**EROSION CONTROL NOTES**

ALL EROSION CONTROL MEASURES WILL BE PLACED PRIOR TO ANY DISRUPTION OF THE EXISTING SOD AREAS OR THE PLACEMENT OF TOPSOIL FROM OFF SITE.

ALL PROPOSED EROSION CONTROL MEASURES SHALL BE COMPLETED AS DETAILED ON THIS EROSION CONTROL PLAN AND IN ACCORDANCE WITH THE SPECIFICATIONS.

EROSION CONTROL MEASURES ARE GOVERNED BY THE ILLINOIS ENVIRONMENTAL PROTECTION AGENCY'S STANDARDS AND SPECIFICATIONS FOR SOIL EROSIONS AND SPECIFICATION FOR SOIL EROSIONS AND SEDIMENT CONTROL.

SILT FENCE WILL BE USED FOR INLET PROTECTION AS SHOWN ON THIS SHEET.

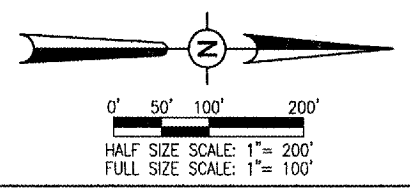
THE PROPOSED INLET PROTECTION WILL BE PLACED AT THE LOCATIONS SHOWN ON THIS SHEET.

INSPECTION OF THE INLET PROTECTION SHALL BE FREQUENT AND REPAIR/REPLACEMENT SHALL BE MADE PROMPTLY AS NEEDED. ANY REPAIR/REPLACEMENT MADE WILL BE CONSIDERED INCIDENTAL AND NO ADDITIONAL COMPENSATION WILL BE ALLOWED.

INLET PROTECTION IS TO INCLUDE ALL INCIDENTALS NECESSARY TO CONSTRUCT THESE ITEMS AND WILL BE PAID FOR UNDER ITEM: AR156520 INLET PROTECTION 3 EACH.

HEADWALL PROTECTION WILL CONSIST OF SILT FENCE AND STRAW BALES. EACH PROTECTION LOCATION WILL BE CONSTRUCTED AS SHOWN ON THIS SHEET AND SHALL CONSIST OF 8 STRAW BALES AND 50 L.F. OF SILT FENCE. THE HEADWALL PROTECTION IS TO INCLUDE ALL INCIDENTALS NECESSARY TO COMPLETE THE INSTALLATION. THE HEADWALL PROTECTION WILL BE PAID FOR UNDER ITEMS:  
AR156510 SILT FENCE 100 L.F.  
AR156512 BALES 16 EACH

THE PROPOSED DITCH CHECKS WILL BE CONSTRUCTED AS SHOWN ON THIS SHEET AND SHALL CONSIST OF A MINIMUM OF 3 BALES PER LOCATION. THE DITCH CHECKS WILL INCLUDE ALL INCIDENTALS NECESSARY TO COMPLETE THE ITEM AND WILL BE PAID FOR UNDER ITEM: AR156511 DITCH CHECK 2 EACH



DATE	REVISION	BY

KEWANEE MUNICIPAL AIRPORT  
KEWANEE, HENRY COUNTY, ILLINOIS

A.I.P. PROJ.: 3-17-0058-B10  
I.L. PROJ.: E21-3533

HD Project No. 810-06TXD.0800	09/08/05
Drawings R-181SWP.DWG	09/08/05
Scale 1"=100'	09/08/05
Date 09/08/05	xx/xx/xx
LAYOUT R.A.W.	
DRAWN B.A.K.	
REVIEWED C.A.H.	

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3125 Dandy Trail, Suite 100  
Indianapolis, Indiana 46214  
Offices Nationwide

OVERLAY TXY & APRON  
CONSTRUCT VAULT  
PROPOSED  
STORMWATER POLLUTION  
PREVENTION PLAN



**TIE DOWN REMOVAL NOTES**

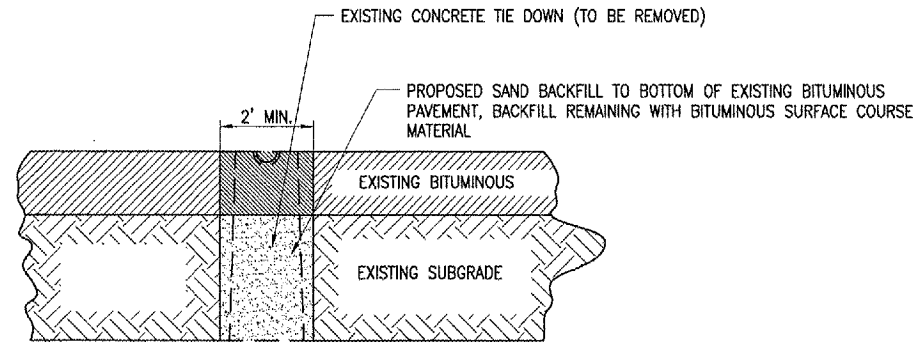
THE EXISTING TIE DOWNS LOCATED IN THE AREAS TO BE OVERLAID WILL BE REMOVED AND DISPOSED OF OFF THE AIRPORT SITE. TIE DOWN REMOVAL SHALL BE ACCOMPLISHED PRIOR TO THE COMPLETION OF ITEMS AR201660-BITUMINOUS CRACK REPAIR AND AR401910-REMOVE AND REPLACE BITUMINOUS PAVEMENT.

THE CONTRACTOR WILL SEPARATE THE TIE DOWNS TO BE REMOVED FROM THE SURROUNDING PAVEMENT PRIOR TO PULLING THE TIE DOWN OUT. REMOVAL OF THE TIE DOWN WILL NOT CAUSE ANY DISPLACEMENT OF THE SURROUNDING PAVEMENT. ANY DISPLACEMENT WILL BE CORRECTED BY THE CONTRACTOR TO THE SATISFACTION OF THE RESIDENT ENGINEER, AT THE CONTRACTOR'S EXPENSE.

THE CONTRACTOR WILL FILL THE HOLE WITH SAND AND BITUMINOUS, AS SHOWN.

THE REMOVAL AND DISPOSAL OF THE TIE DOWNS AND FILLING OF THE HOLES WITH SAND AND BITUMINOUS WILL BE PAID FOR UNDER ITEM:

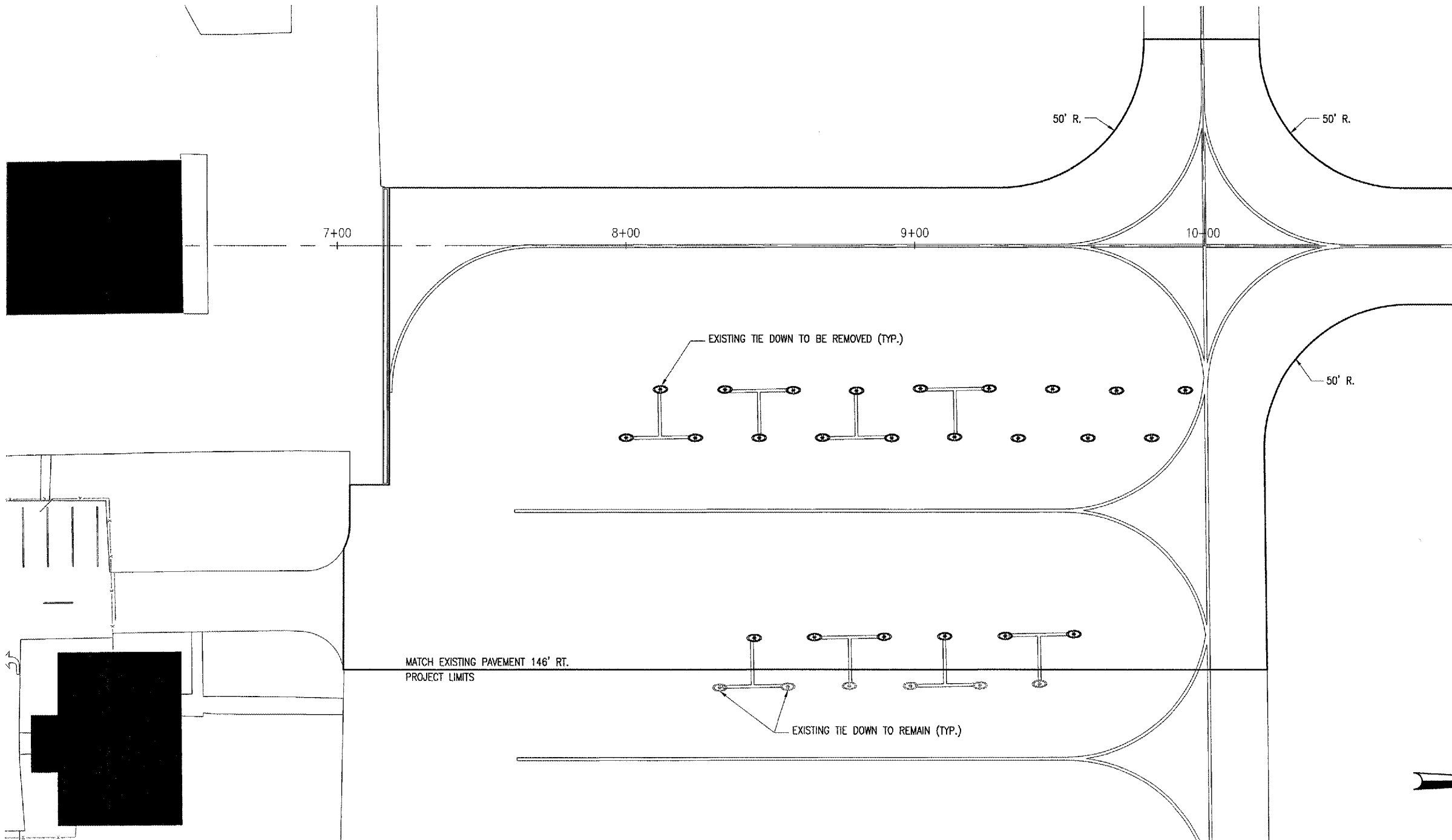
AR510900 "REMOVE TIE DOWN" \_\_\_\_\_ 24 EA.



**TIE DOWN REMOVAL DETAIL**

**LEGEND**

- EXISTING PAVEMENT
- EXISTING BUILDINGS
- PROPOSED IMPROVEMENTS
- EXISTING MARKING
- EXISTING TIE DOWN (TO REMAIN)
- EXISTING TIE DOWN (TO BE REMOVED)



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DATE	REVISION	BY

KEWANEE MUNICIPAL AIRPORT  
 KEWANEE, HENRY COUNTY, ILLINOIS

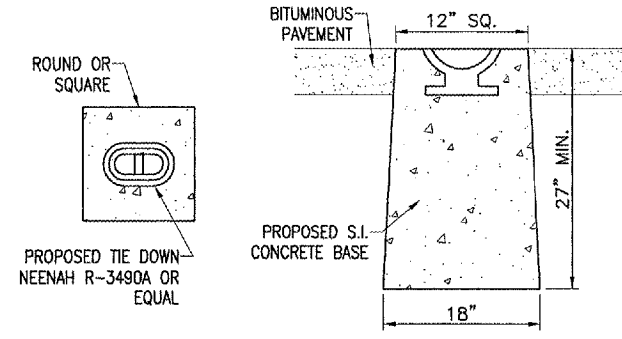
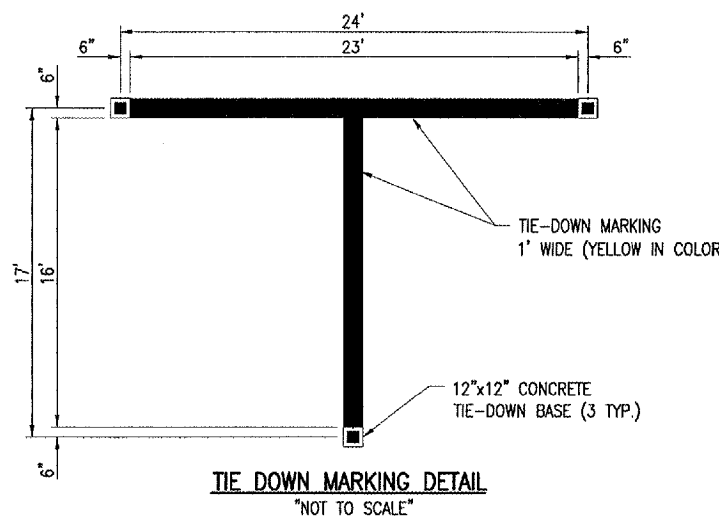
IL PROJ.: E21-3533 A.I.P. PROJ.: 3-17-0058-B10

IEI Project No. 810-06TXXD 0800	Drawings R-151MRK.DWG	Scale 1" = 20'	Date 08/31/05
LAYOUT	R.A.W.	08/31/05	
DRAWN	B.A.K.	08/31/05	
REVIEWED	C.A.H.	xx/xx/xx	

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 Indianapolis, Indiana 46214  
 Offices Nationwide

OVERLAY TXY & APRON  
 CONSTRUCT VAULT  
 EXISTING TIE DOWN  
 REMOVAL AND MARKING  
 PLAN



**TIE DOWN NOTES**

NEW TIE DOWNS WILL BE INSTALLED IN ACCORDANCE WITH DETAIL "B" AT THE LOCATIONS SHOWN ON THIS SHEET.

THE PERIMETER OF EACH PROPOSED TIE DOWN SHALL BE SAWS.

TIE DOWN CASTINGS SHALL BE NEENAH R-3490A OR EQUAL.

CONCRETE SHALL MEET THE REQUIREMENTS OF 610 - STRUCTURAL CONCRETE.

THE PROPOSED TIE DOWN MARKING WILL BE IN ACCORDANCE WITH THE TIE DOWN MARKING DETAIL ON THIS SHEET AND THE SPECIFICATIONS, AND PAID FOR AS NOTED BELOW.

THE TIE DOWN INSTALLATION WILL BE PAID FOR UNDER ITEM: AR510510 "TIE DOWN" \_\_\_\_\_ 16 EA.

MARKING QUANTITIES			
DESCRIPTION	UNIT AREA	NO. REQUIRED	TOTAL AREA
TAXIWAY CENTERLINE	3,224	1	3,175
TIE DOWN	39	7	273
HOLDING POSITION	124	3	372
		TOTAL YELLOW	3,820
HOLDING POSITION (BLACK)	196	3	588
		TOTAL BLACK	588
		TOTAL MARKING	4,408

**620-PAVEMENT MARKING-WATERBORNE NOTES**

THE PAVEMENT MARKING-WATERBORNE (620) SHALL BE PLACED IN ACCORDANCE WITH ITEM 620 "PAVEMENT MARKING" AS STATED ON PAGE 77 OF THE SUPPLEMENTAL SPECIFICATIONS AND RECURRING SPECIAL PROVISIONS, ADOPTED JULY 1, 2004.

THIS ITEM SHALL CONSIST OF TAXIWAY CENTERLINE, HOLDING POSITION (YELLOW) AND TIE DOWN MARKING IN ACCORDANCE WITH THESE SPECIFICATIONS AND AT THE LOCATIONS SHOWN ON THE CONSTRUCTION PLANS. THE PROPOSED PAVEMENT MARKING WILL BE APPLIED IN TWO APPLICATIONS.

ANY MATERIAL DELIVERED THAT FAILS TO MEET THE SPECIFICATIONS SHALL BE DISPOSED OF BY THE VENDOR AND IMMEDIATELY REPLACED WITH ACCEPTABLE MATERIAL ENTIRELY AT THE VENDOR'S EXPENSE, INCLUDING HANDLING AND TRANSPORTATION CHARGES.

ALL PROPOSED MARKING WILL BE COMPLETED IN ACCORDANCE WITH THE DETAILS SHOWN ON THE CONSTRUCTION PLANS.

GLASS BEADS SHALL BE REQUIRED ONLY ON THE SECOND APPLICATION.

CUT-OFF SHEETS WILL BE REQUIRED TO INSURE STRAIGHT EDGES.

THE PROPOSED MARKING WILL BE PAID FOR UNDER ITEM: AR620520 PAVEMENT MARKING-WATERBORNE \_ 3,820 S.F.

**620-BLACK BORDER NOTES**

THE BLACK BORDER (620) SHALL BE PLACED IN ACCORDANCE WITH ITEM 620 "PAVEMENT MARKING" AS STATED ON PAGE 77 OF THE SUPPLEMENTAL SPECIFICATIONS AND RECURRING SPECIAL PROVISIONS, ADOPTED JULY 1, 2004.

THIS ITEM SHALL CONSIST OF THE BLACK BORDER AROUND THE HOLDING POSITION MARKING IN ACCORDANCE WITH THESE SPECIFICATIONS AND AT THE LOCATIONS SHOWN ON THE CONSTRUCTION PLANS. THE PROPOSED PAVEMENT MARKING WILL BE APPLIED IN TWO APPLICATIONS.

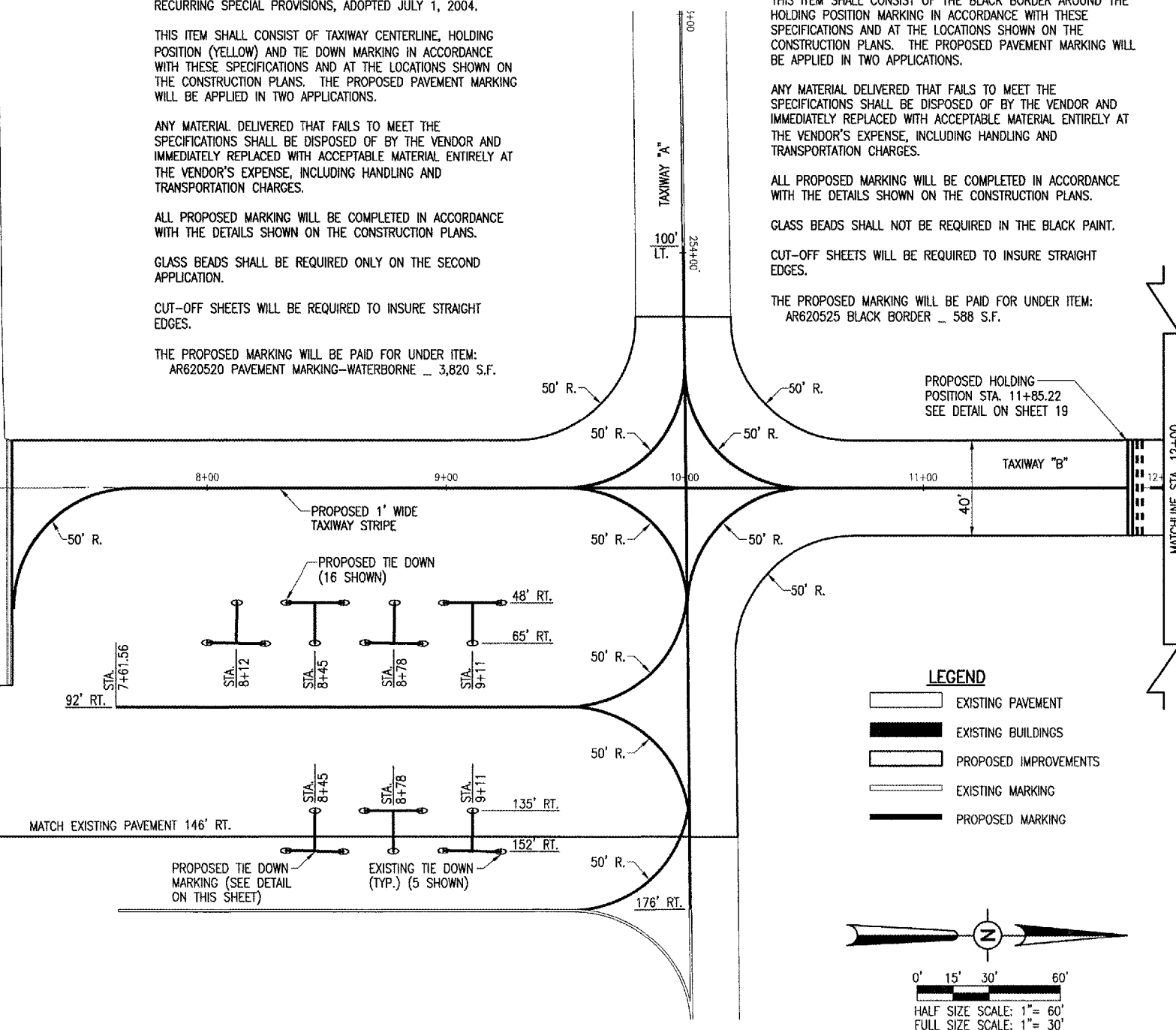
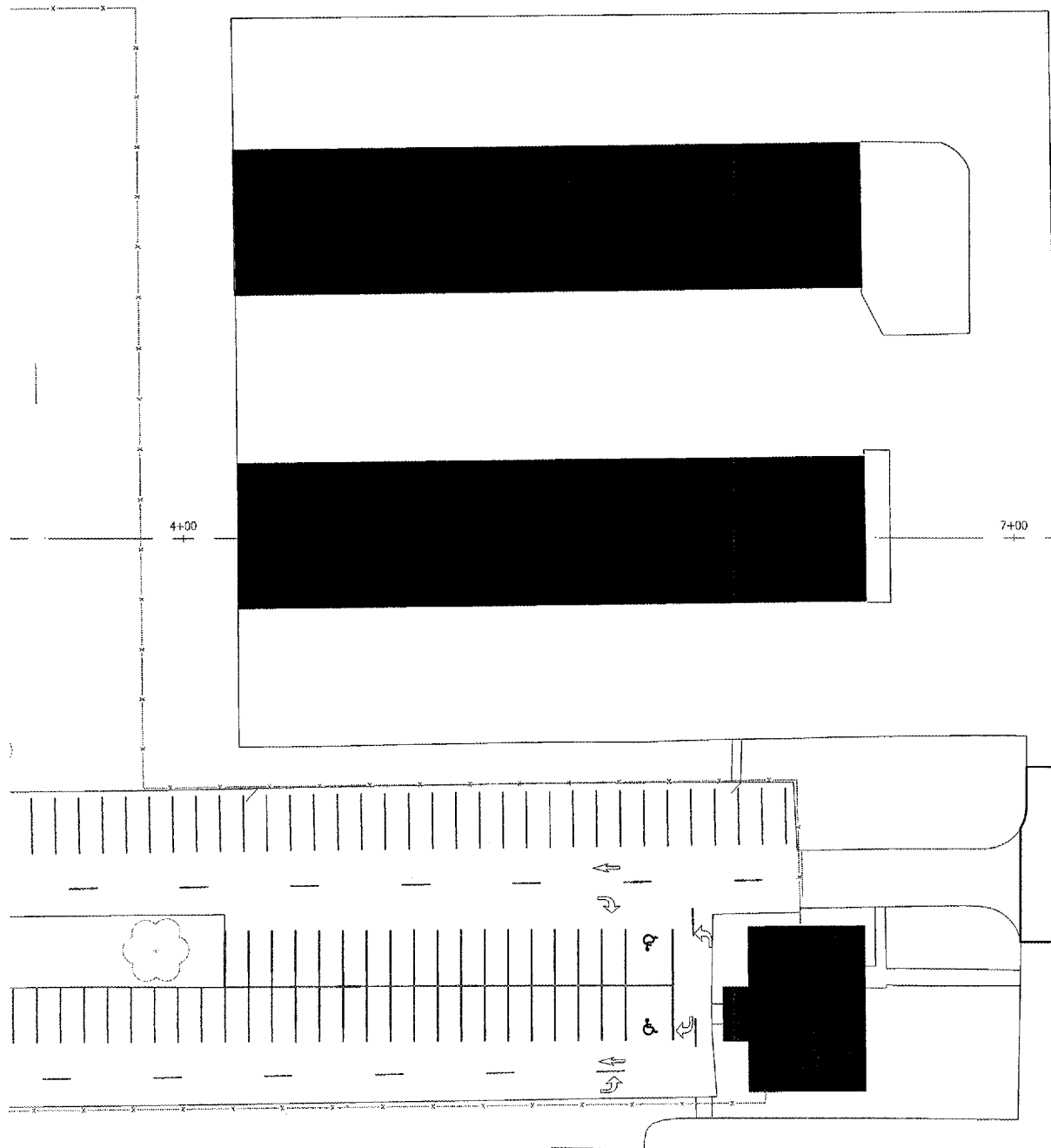
ANY MATERIAL DELIVERED THAT FAILS TO MEET THE SPECIFICATIONS SHALL BE DISPOSED OF BY THE VENDOR AND IMMEDIATELY REPLACED WITH ACCEPTABLE MATERIAL ENTIRELY AT THE VENDOR'S EXPENSE, INCLUDING HANDLING AND TRANSPORTATION CHARGES.

ALL PROPOSED MARKING WILL BE COMPLETED IN ACCORDANCE WITH THE DETAILS SHOWN ON THE CONSTRUCTION PLANS.

GLASS BEADS SHALL NOT BE REQUIRED IN THE BLACK PAINT.

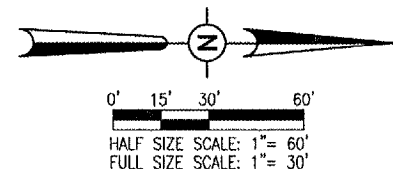
CUT-OFF SHEETS WILL BE REQUIRED TO INSURE STRAIGHT EDGES.

THE PROPOSED MARKING WILL BE PAID FOR UNDER ITEM: AR620525 BLACK BORDER \_ 588 S.F.



**LEGEND**

- EXISTING PAVEMENT
- EXISTING BUILDINGS
- PROPOSED IMPROVEMENTS
- EXISTING MARKING
- PROPOSED MARKING



DATE	REVISION	BY

KEWANEE MUNICIPAL AIRPORT  
KEWANEE, HENRY COUNTY, ILLINOIS

IL PROJ.: EZI-3533 A.I.P. PROJ.: 3-17-0058-B10

HEI Project No.	810-067XXD.0800
File Name	R-152MRK.DWG
Scale	1" = 30'
Date	08/30/05
LAYOUT	R.A.W. 08/30/05
DRAWN	B.A.K. 08/30/05
REVIEWED	C.A.H. xx/xx/xx

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3125 Dandy Trail, Suite 100  
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Offices Nationwide

OVERLAY TXY & APRON  
CONSTRUCT VAULT

PROPOSED  
MARKING PLAN

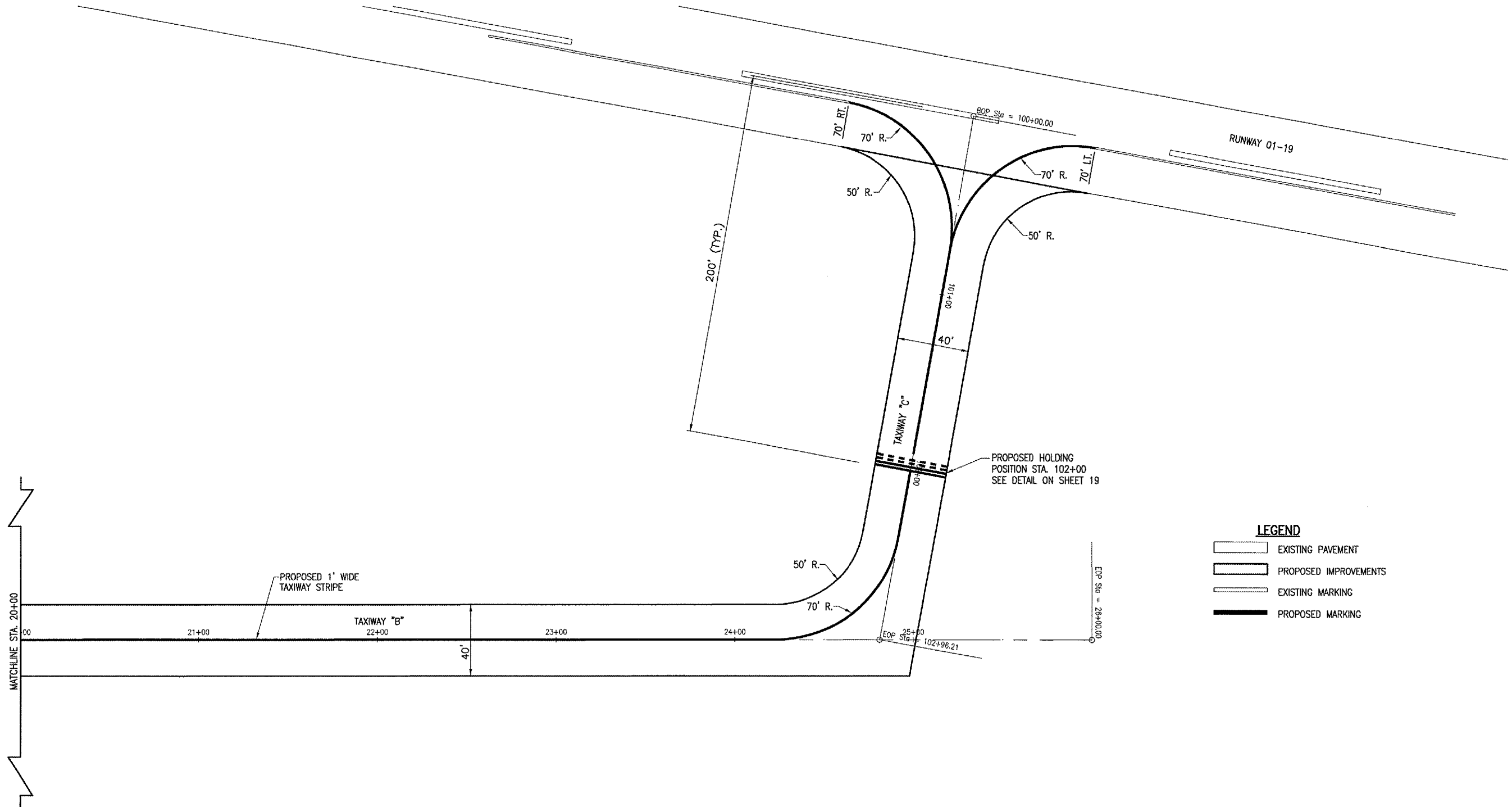
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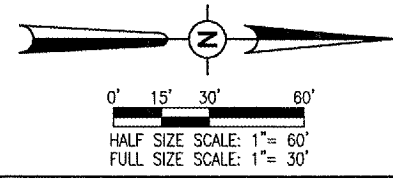
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KE007



**LEGEND**

	EXISTING PAVEMENT
	PROPOSED IMPROVEMENTS
	EXISTING MARKING
	PROPOSED MARKING



DATE	REVISION	BY

KEWANEE MUNICIPAL AIRPORT  
 KEWANEE, HENRY COUNTY, ILLINOIS  
 I.L. PROJ.: E21-3533 A.I.P. PROJ.: 3-17-0058-B10

HE Project No. 810-06TAXI.DWG	R-152MRK.DWG
Scale 1"=30'	Date 08/30/05
LAYOUT R.A.W. 08/30/05	DRAWN B.A.K. 08/30/05
REVIEWED C.A.H.	xx/xx/xx

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 3125 Dandy Trail, Suite 100  
 Indianapolis, Indiana 46214  
 Offices Nationwide

OVERLAY TXY & APRON  
 CONSTRUCT VAULT  
 PROPOSED  
 MARKING PLAN  
 STA. 20+00 TO STA. 26+00

THE LOCATION, SIZE AND TYPE OF MATERIAL OF EXISTING UNDERGROUND UTILITIES INDICATED ON THE PLANS IS NOT REPRESENTED AS BEING ACCURATE, SUFFICIENT OR COMPLETE. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE THE ACTUAL LOCATION OF ALL SUCH FACILITIES, INCLUDING SERVICE CONNECTIONS TO UNDERGROUND UTILITIES. PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL NOTIFY THE UTILITY COMPANIES OF HIS OPERATIONAL PLANS AND SHALL OBTAIN FROM THE RESPECTIVE UTILITY COMPANIES DETAILED INFORMATION AND ASSISTANCE RELATIVE TO THE LOCATION OF THEIR FACILITIES AND THE WORKING SCHEDULE OF THE COMPANIES FOR REMOVAL OR ADJUSTMENT WHERE REQUIRED. IN THE EVENT AN UNEXPECTED UTILITY INTERFERENCE IS ENCOUNTERED DURING CONSTRUCTION, THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE UTILITY COMPANY OF JURISDICTION. THE ENGINEER SHALL ALSO BE IMMEDIATELY NOTIFIED. ANY SUCH MAINS AND SERVICES SHALL BE RESTORED TO SERVICE AT ONCE AND PAID FOR BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE CONTRACT.

CALL J.U.L.I.E. FOR UTILITY INFORMATION AT 1-800-892-0123.

ELECTRICAL REMOVAL QUANTITIES			
ITEM NO.	DESCRIPTION	UNIT	QUANTITY
AR125901	REMOVE STAKE MOUNTED LIGHT	EACH	42
AR125902	REMOVE BASE MOUNTED LIGHT	EACH	8
AR125904	REMOVE TAXI GUIDANCE SIGN	EACH	3

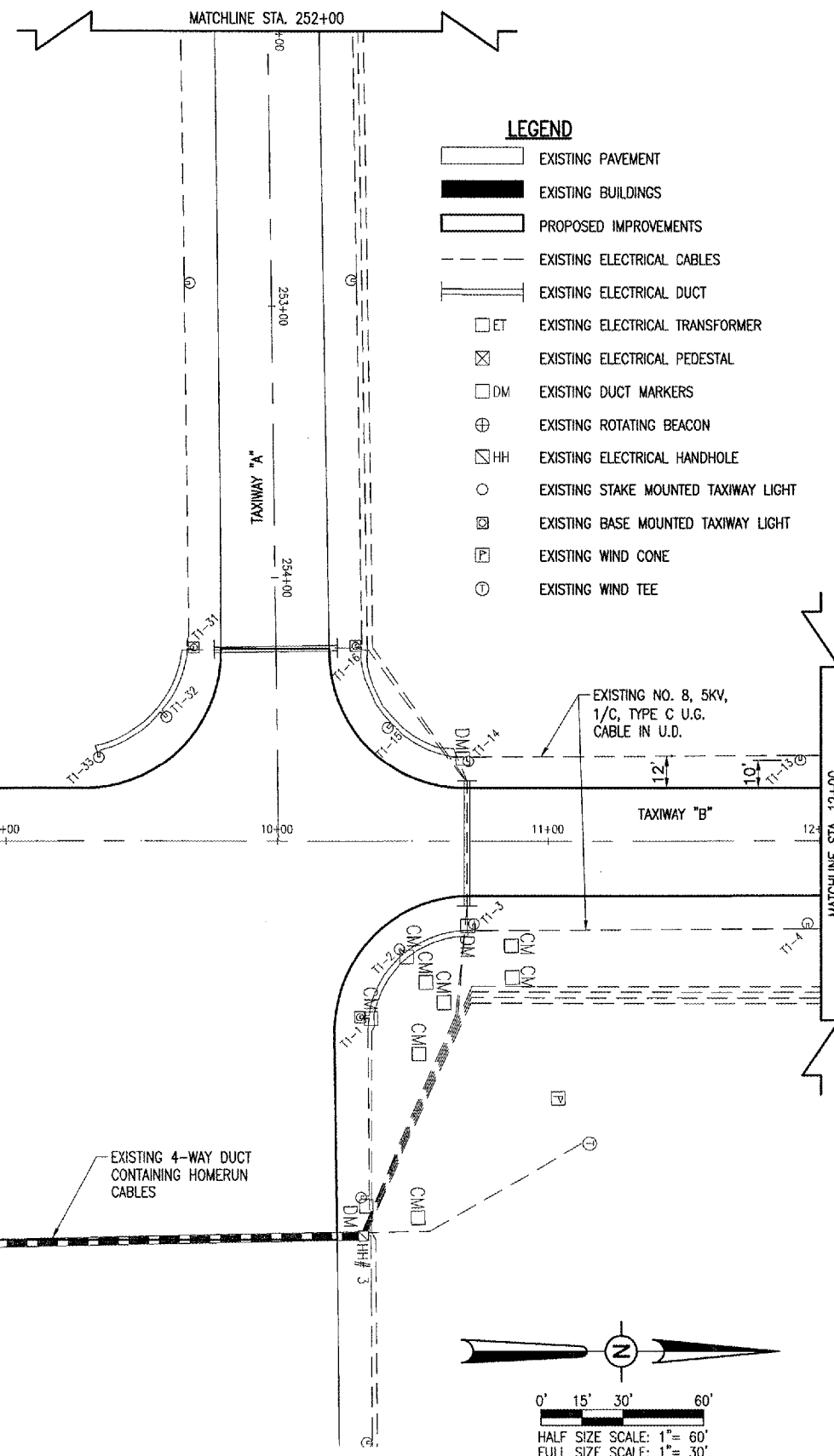
**LIGHT AND TAXI GUIDANCE SIGN REMOVAL NOTES**

THE FOLLOWING LIGHTS WILL BE REMOVED AS PART OF THE LIGHTING IMPROVEMENT PORTION OF THE PROJECT: T1-1 THROUGH T1-16, T2-1 THROUGH T2-34, AND TAXI GUIDANCE SIGNS: TS-2 THROUGH TS-4.

THE FIXTURES AND FOUNDATIONS WILL BE REMOVED IN THEIR ENTIRETY AND THE SALVAGEABLE EQUIPMENT TURNED OVER TO THE AIRPORT MANAGER, AT HIS DISCRETION. ALL FIXTURES NOT CLAIMED BY THE AIRPORT WILL BE DISPOSED OF OFF THE AIRPORT SITE AT THE CONTRACTOR'S EXPENSE. ALL LABOR, MATERIALS, DISPOSAL, COORDINATION, AND INCIDENTALS REQUIRED TO COMPLETE THE TASK OF REMOVING THE LIGHTS AND SIGNS WILL BE CONSIDERED INCIDENTAL TO THE ITEMS AND NO ADDITIONAL COMPENSATION WILL BE ALLOWED.

THE CONTRACTOR IS REQUIRED TO FILL IN ALL HOLES AND DEPRESSIONS RESULTING FROM THE LIGHT AND SIGN REMOVALS, WITH EARTH FROM OFF SITE. THE AREAS SHALL BE COMPACTED TO PREVENT FUTURE SETTLEMENT. EACH REMOVAL LOCATION SHALL BE FERTILIZED, SEEDED, AND MULCHED IN ACCORDANCE WITH ITEMS 901 AND 908 RESPECTIVELY, IF OUTSIDE THE PROPOSED GRADING LIMITS OF THE PAVING PORTION OF THE PROJECT.

- AR125901 REMOVE STAKE MOUNTED LIGHT \_\_\_\_\_ 42 EACH
- AR125902 REMOVE BASE MOUNTED LIGHT \_\_\_\_\_ 8 EACH
- AR125904 REMOVE TAXI GUIDANCE SIGN \_\_\_\_\_ 3 EACH



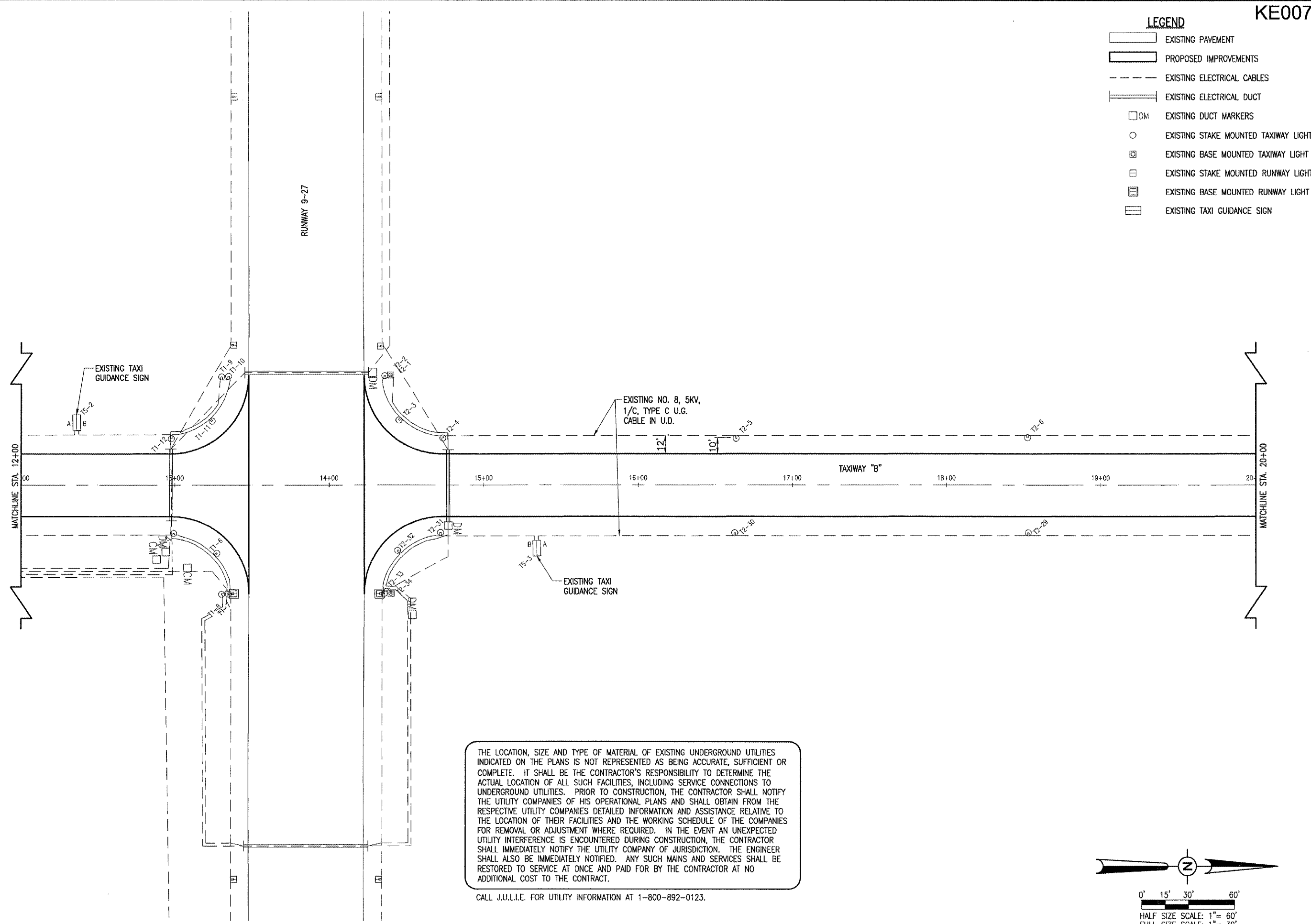
**LEGEND**

- [Solid Line] EXISTING PAVEMENT
- [Solid Black Area] EXISTING BUILDINGS
- [Dashed Line] PROPOSED IMPROVEMENTS
- [Dashed Line] EXISTING ELECTRICAL CABLES
- [Dashed Line] EXISTING ELECTRICAL DUCT
- [Square with X] EXISTING ELECTRICAL TRANSFORMER
- [Square with X] EXISTING ELECTRICAL PEDESTAL
- [Square with DM] EXISTING DUCT MARKERS
- [Circle with +] EXISTING ROTATING BEACON
- [Square with HH] EXISTING ELECTRICAL HANDHOLE
- [Circle with O] EXISTING STAKE MOUNTED TAXIWAY LIGHT
- [Square with X] EXISTING BASE MOUNTED TAXIWAY LIGHT
- [Square with P] EXISTING WIND CONE
- [Circle with T] EXISTING WIND TEE

JAN 18, 2006 10:49 PM RAW I:\AIRPORTS\KEWANEE\810-06TXYD\AIRPORT\SHEETS\R-14\ELE.DWG - STA. 4+00 TO STA. 12+00

	BY			
	REVISION			
	DATE			
<b>KEWANEE MUNICIPAL AIRPORT KEWANEE, HENRY COUNTY, ILLINOIS</b>				
A.I.P. PROJ.: 3-17-0058-B10 IL PROJ.: E21-3533				
HD Project No. 810-06TXYD.0800 File Name R-14\1\ELE.DWG Scale 1"=30' Date 08/02/05	LAYOUT R.A.W. 08/02/05 DRAWN B.A.K. 08/02/05 REVIEWED C.A.H. xx/xx/xx	<p>Hanson Professional Services Inc. 3125 Dancy Trail, Suite 100 Indianapolis, Indiana 46214 Offices Nationwide</p>		
<b>OVERLAY TXY &amp; APRON CONSTRUCT VAULT</b> EXISTING ELECTRICAL PLAN STA. 4+00 TO STA. 12+00				
21				
21 of 67 sheets				

JAN 18, 2006 10:49 PM RAW  
 I:\AIRPORTS\KEWANEE\810-06TXYD\AIRPORT\SHEETS\R-141ELE.DWG - STA. 12+00 TO STA. 20+00

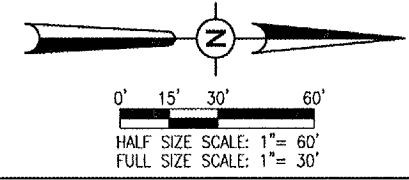


- LEGEND**
- EXISTING PAVEMENT
  - PROPOSED IMPROVEMENTS
  - - - - - EXISTING ELECTRICAL CABLES
  - EXISTING ELECTRICAL DUCT
  - DM EXISTING DUCT MARKERS
  - EXISTING STAKE MOUNTED TAXIWAY LIGHT
  - ⊗ EXISTING BASE MOUNTED TAXIWAY LIGHT
  - ⊠ EXISTING STAKE MOUNTED RUNWAY LIGHT
  - ⊞ EXISTING BASE MOUNTED RUNWAY LIGHT
  - ⊡ EXISTING TAXI GUIDANCE SIGN

KE007

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CALL J.U.L.I.E. FOR UTILITY INFORMATION AT 1-800-892-0123.



DATE	REVISION	BY	
<p><b>KEWANEE MUNICIPAL AIRPORT</b>  <b>KEWANEE, HENRY COUNTY, ILLINOIS</b></p> <p>IL PROJ.: E21-3533      A.I.P. PROJ.: 3-17-0058-810</p>			
<p>HEL Project No. 810-06TXYD_0800          Filename R-141ELE.DWG          Scale 1"=30'          Date 08/02/05</p>		<p>LAYOUT R.A.W. 08/02/05          DRAWN B.A.K. 08/02/05          REVIEWED C.A.H. xx/xx/xx</p>	
<p>Hanson Professional Services Inc.          3125 Dandy Trail, Suite 100          Indianapolis, Indiana 46214          Offices Nationwide</p>			
<p><b>OVERLAY TXY &amp; APRON</b>  <b>CONSTRUCT VAULT</b></p>		<p>EXISTING  <b>ELECTRICAL PLAN</b>          STA. 12+00 TO STA. 20+00</p>	
<p><b>22</b></p> <p>22 of 67 sheets</p>			



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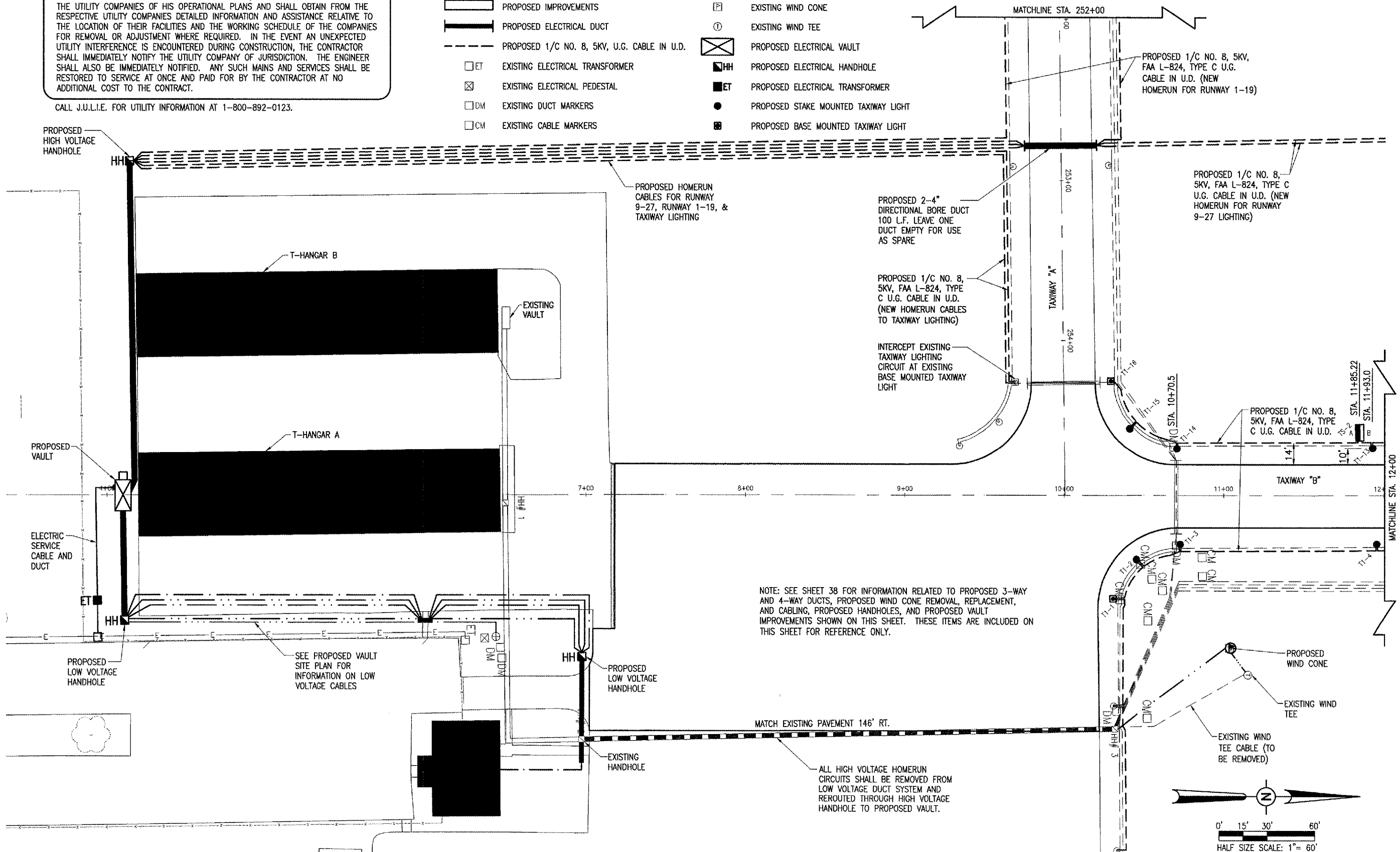
CALL J.U.L.I.E. FOR UTILITY INFORMATION AT 1-800-892-0123.

**LEGEND**

- EXISTING PAVEMENT
- EXISTING BUILDINGS
- EXISTING ELECTRICAL CABLES
- EXISTING ELECTRICAL DUCT
- PROPOSED IMPROVEMENTS
- PROPOSED ELECTRICAL DUCT
- PROPOSED 1/C NO. 8, 5KV, U.G. CABLE IN U.D.
- EXISTING ELECTRICAL TRANSFORMER
- EXISTING ELECTRICAL PEDESTAL
- EXISTING DUCT MARKERS
- EXISTING CABLE MARKERS
- EXISTING ROTATING BEACON
- EXISTING ELECTRICAL HANDHOLE
- EXISTING STAKE MOUNTED TAXIWAY LIGHT
- EXISTING BASE MOUNTED TAXIWAY LIGHT
- EXISTING WIND CONE
- EXISTING WIND TEE
- PROPOSED ELECTRICAL VAULT
- PROPOSED ELECTRICAL HANDHOLE
- PROPOSED ELECTRICAL TRANSFORMER
- PROPOSED STAKE MOUNTED TAXIWAY LIGHT
- PROPOSED BASE MOUNTED TAXIWAY LIGHT

**NOTE**

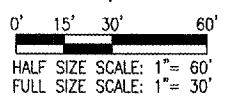
ABANDONMENT AND/OR REMOVAL OF EXISTING RUNWAY OR TAXIWAY LIGHTING CABLES SHALL BE INCIDENTAL TO ITEM AR108158 1/C NO. 8, 5KV, U.G. CABLE IN U.D.



NOTE: SEE SHEET 38 FOR INFORMATION RELATED TO PROPOSED 3-WAY AND 4-WAY DUCTS, PROPOSED WIND CONE REMOVAL, REPLACEMENT, AND CABLING, PROPOSED HANDHOLES, AND PROPOSED VAULT IMPROVEMENTS SHOWN ON THIS SHEET. THESE ITEMS ARE INCLUDED ON THIS SHEET FOR REFERENCE ONLY.

MATCH EXISTING PAVEMENT 146' RT.

ALL HIGH VOLTAGE HOMERUN CIRCUITS SHALL BE REMOVED FROM LOW VOLTAGE DUCT SYSTEM AND REROUTED THROUGH HIGH VOLTAGE HANDHOLE TO PROPOSED VAULT.



DATE	REVISION	BY

**Kewanee Municipal Airport**  
**Kewanee, Henry County, Illinois**  
 I.L. PROJ.: E2-3533 A.I.P. PROJ.: 3-17-0058-B10

LAYOUT	R.A.W.	08/02/05
DRAWN	B.A.K.	08/02/05
REVIEWED	C.A.H.	xx/xx/xx

Hanson Professional Services Inc.  
 3125 Dancy Trail, Suite 100  
 Indianapolis, Indiana 46214  
 Offices Nationwide

**OVERLAY TXY & APRON CONSTRUCT VAULT**  
 PROPOSED ELECTRICAL PLAN  
 STA. 4+00 TO STA. 12+00

JAN 18, 2006 10:46 PM RAW  
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









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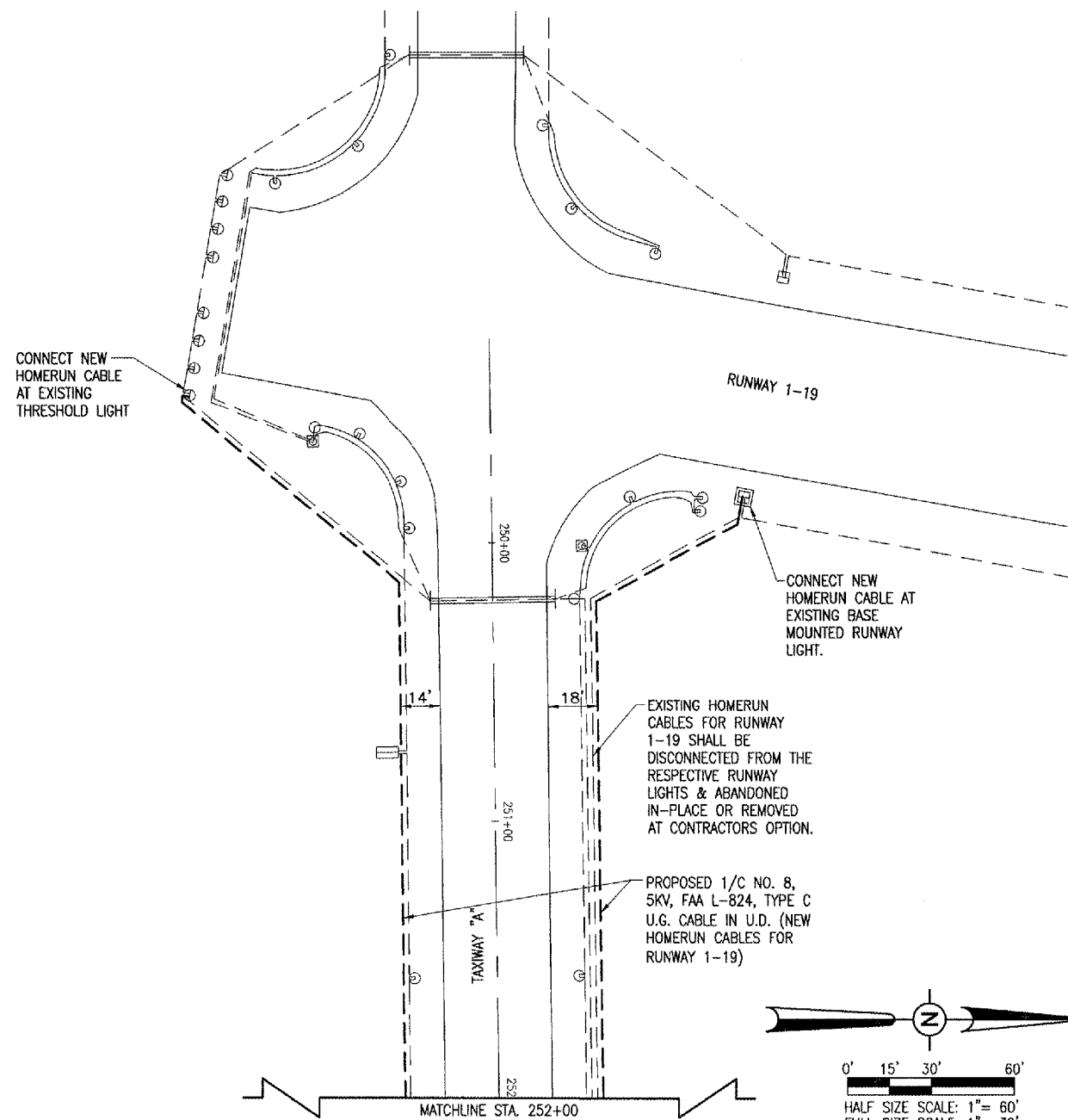
CALL J.U.L.I.E. FOR UTILITY INFORMATION AT 1-800-892-0123.

**NOTE**

ABANDONMENT AND/OR REMOVAL OF EXISTING RUNWAY OR TAXIWAY LIGHTING CABLES SHALL BE INCIDENTAL TO ITEM AR108158 1/C NO. 8, 5KV, U.G. CABLE IN U.D.

**LEGEND**

-  EXISTING PAVEMENT
-  EXISTING ELECTRICAL CABLES
-  EXISTING ELECTRICAL DUCT
-  PROPOSED 1/C NO. 8, 5KV, U.G. CABLE IN U.D.
-  EXISTING STAKE MOUNTED TAXIWAY LIGHT
-  EXISTING BASE MOUNTED TAXIWAY LIGHT
-  EXISTING STAKE MOUNTED RUNWAY THRESHOLD LIGHT
-  EXISTING STAKE MOUNTED RUNWAY LIGHT
-  EXISTING BASE MOUNTED RUNWAY LIGHT
-  EXISTING TAXI GUIDANCE SIGN



JAN 18, 2006 10:46 PM RAW I:\AIRPORTS\KEWANEE\810-08TX\AIRPORT\ SHEETS\R-142ELE.DWG - TAXIWAY A

Proj. No.	810-08TX\0800
Filename	R-142ELE.DWG
Scale	1"=30'
Date	08/02/05
LAYOUT	R.A.W. 08/02/05
DRAWN	B.A.K. 08/02/05
REVIEWED	C.A.H. xx/xx/xx

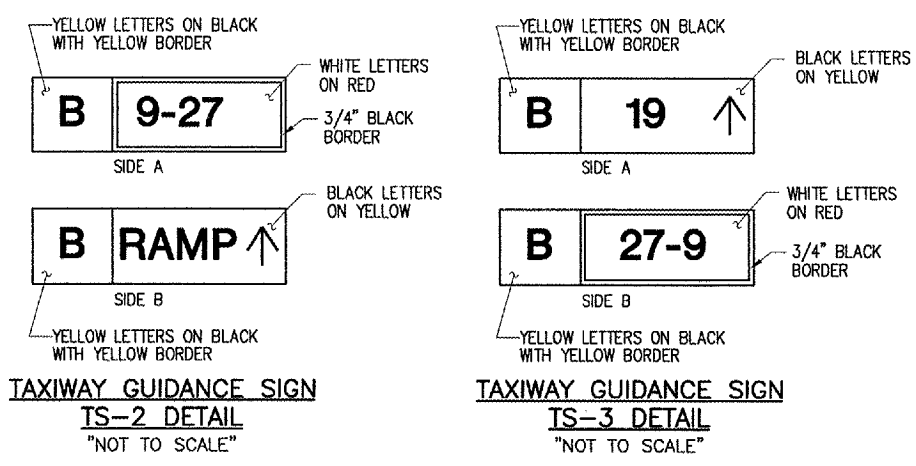
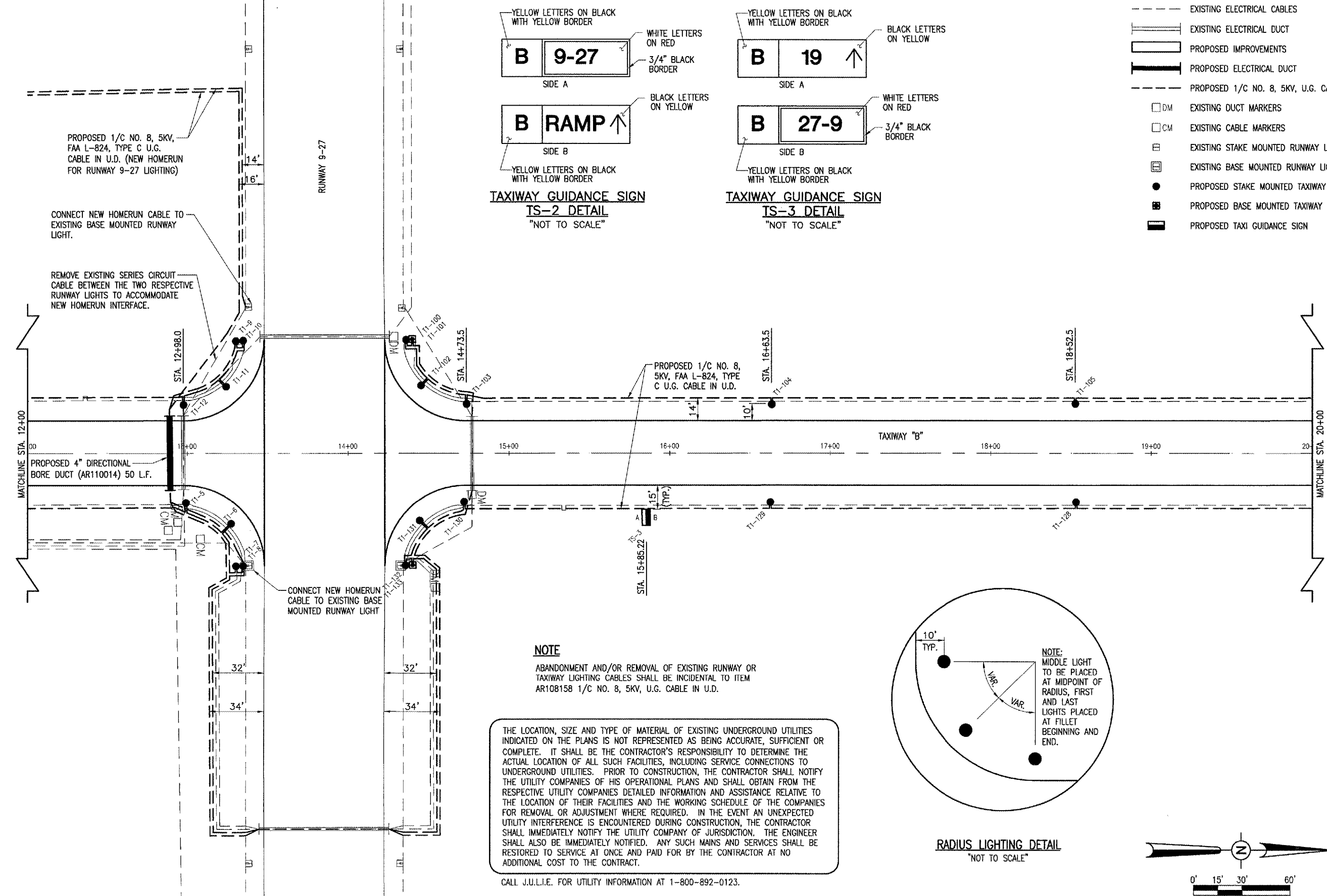
**HANSON**  
 Hanson Professional Services Inc.  
 3125 Dandy Trail, Suite 100  
 Indianapolis, Indiana 46214  
 Offices Nationwide

OVERLAY TXY & APRON  
 CONSTRUCT VAULT  
 PROPOSED  
 ELECTRICAL PLAN  
 TAXIWAY "A"

BY	
REVISION	
DATE	
KEWANEE MUNICIPAL AIRPORT KEWANEE, HENRY COUNTY, ILLINOIS	
IL. PROJ.: E21-3533 A.I.P. PROJ.: 3-17-0058-810	

JAN 18, 2006 10:46 PM RAW  
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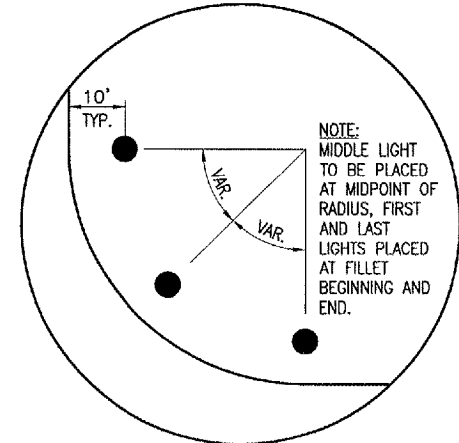
**LEGEND**

	EXISTING PAVEMENT
	EXISTING ELECTRICAL CABLES
	EXISTING ELECTRICAL DUCT
	PROPOSED IMPROVEMENTS
	PROPOSED ELECTRICAL DUCT
	PROPOSED 1/2 NO. 8, 5KV, U.G. CABLE IN U.D.
	EXISTING DUCT MARKERS
	EXISTING CABLE MARKERS
	EXISTING STAKE MOUNTED RUNWAY LIGHT
	EXISTING BASE MOUNTED RUNWAY LIGHT
	PROPOSED STAKE MOUNTED TAXIWAY LIGHT
	PROPOSED BASE MOUNTED TAXIWAY LIGHT
	PROPOSED TAXI GUIDANCE SIGN

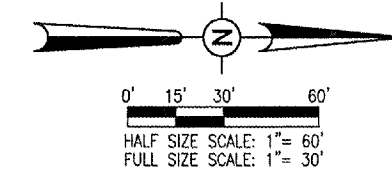
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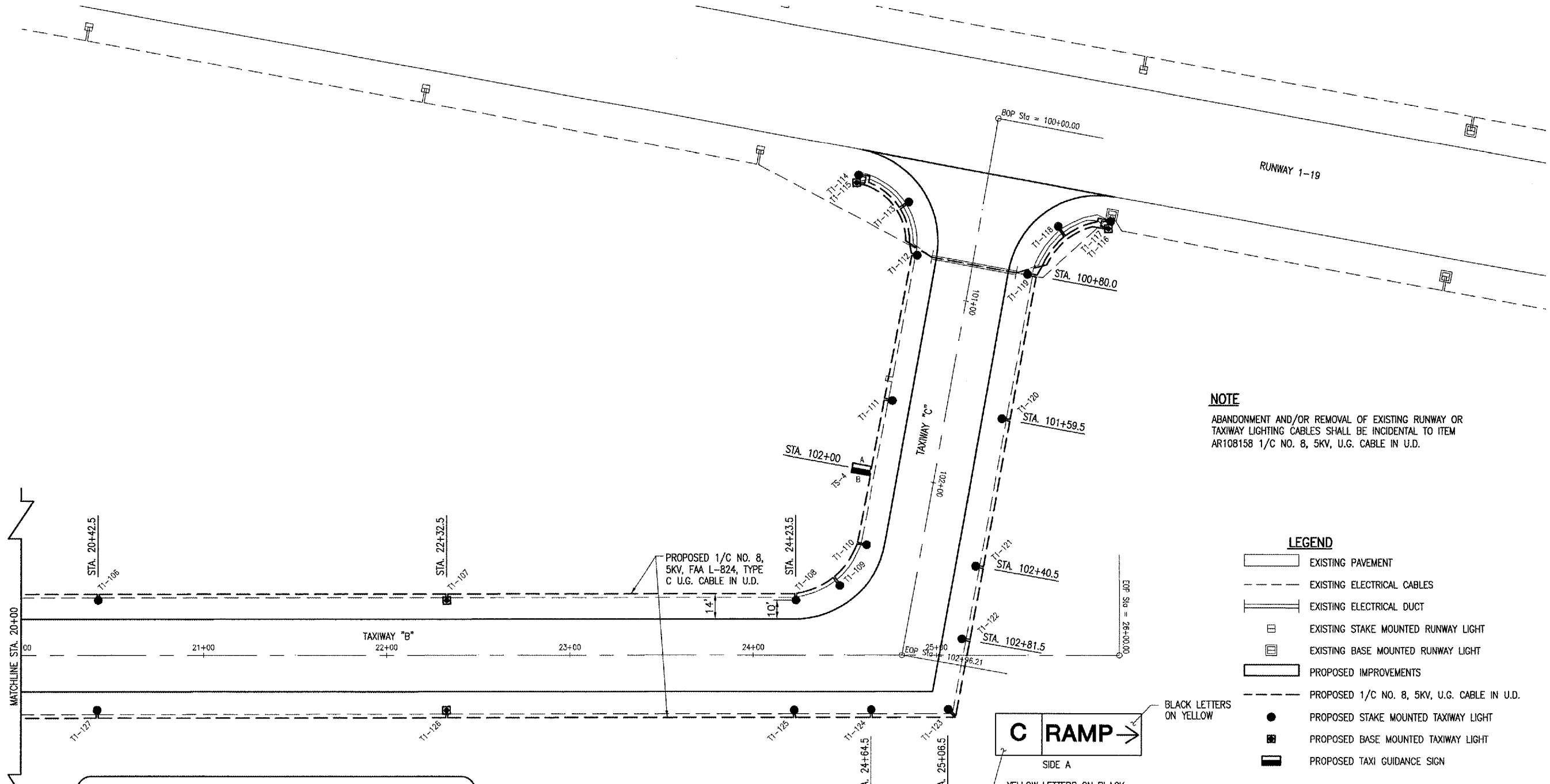
CALL J.U.L.I.E. FOR UTILITY INFORMATION AT 1-800-892-0123.



RADIUS LIGHTING DETAIL  
 "NOT TO SCALE"

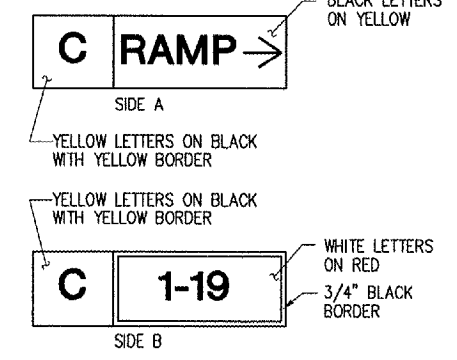


BY	
REVISION	
DATE	
KEWANEE MUNICIPAL AIRPORT KEWANEE, HENRY COUNTY, ILLINOIS	
A.I.P. PROJ.: 3-17-0058-B10 I.L. PROJ.: E21-3533	
KE Project No. 810-06TXYD 0800	LAYOUT R.A.W. 08/02/05
Drawings R-142ELE.DWG	DRAWN B.A.K. 08/02/05
Scale 1"=30'	REVIEWED C.A.H. xx/xx/xx
Date 08/02/05	
<b>HANSON</b> Hanson Professional Services Inc. 3125 Dandy Trail, Suite 100 Indianapolis, Indiana 46214 Offices Nationwide	
OVERLAY TXY & APRON CONSTRUCT VAULT	
PROPOSED ELECTRICAL PLAN STA. 12+00 TO STA. 20+00	
<b>26</b>	
26 of 67 sheets	



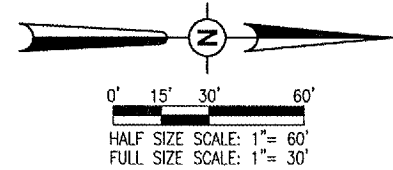
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- LEGEND**
- EXISTING PAVEMENT
  - EXISTING ELECTRICAL CABLES
  - EXISTING ELECTRICAL DUCT
  - EXISTING STAKE MOUNTED RUNWAY LIGHT
  - EXISTING BASE MOUNTED RUNWAY LIGHT
  - PROPOSED IMPROVEMENTS
  - PROPOSED 1/C NO. 8, 5KV, U.G. CABLE IN U.D.
  - PROPOSED STAKE MOUNTED TAXIWAY LIGHT
  - PROPOSED BASE MOUNTED TAXIWAY LIGHT
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JAN 18, 2006 10:46 PM RAW  
 F:\AIRPORTS\KEWANEE\810-06TXYD\AIRPORT\SHEETS\R-142ELE.DWG - STA. 20+00 TO STA. 26+00

DATE	REVISION	BY

**KEWANEE MUNICIPAL AIRPORT  
 KEWANEE, HENRY COUNTY, ILLINOIS**

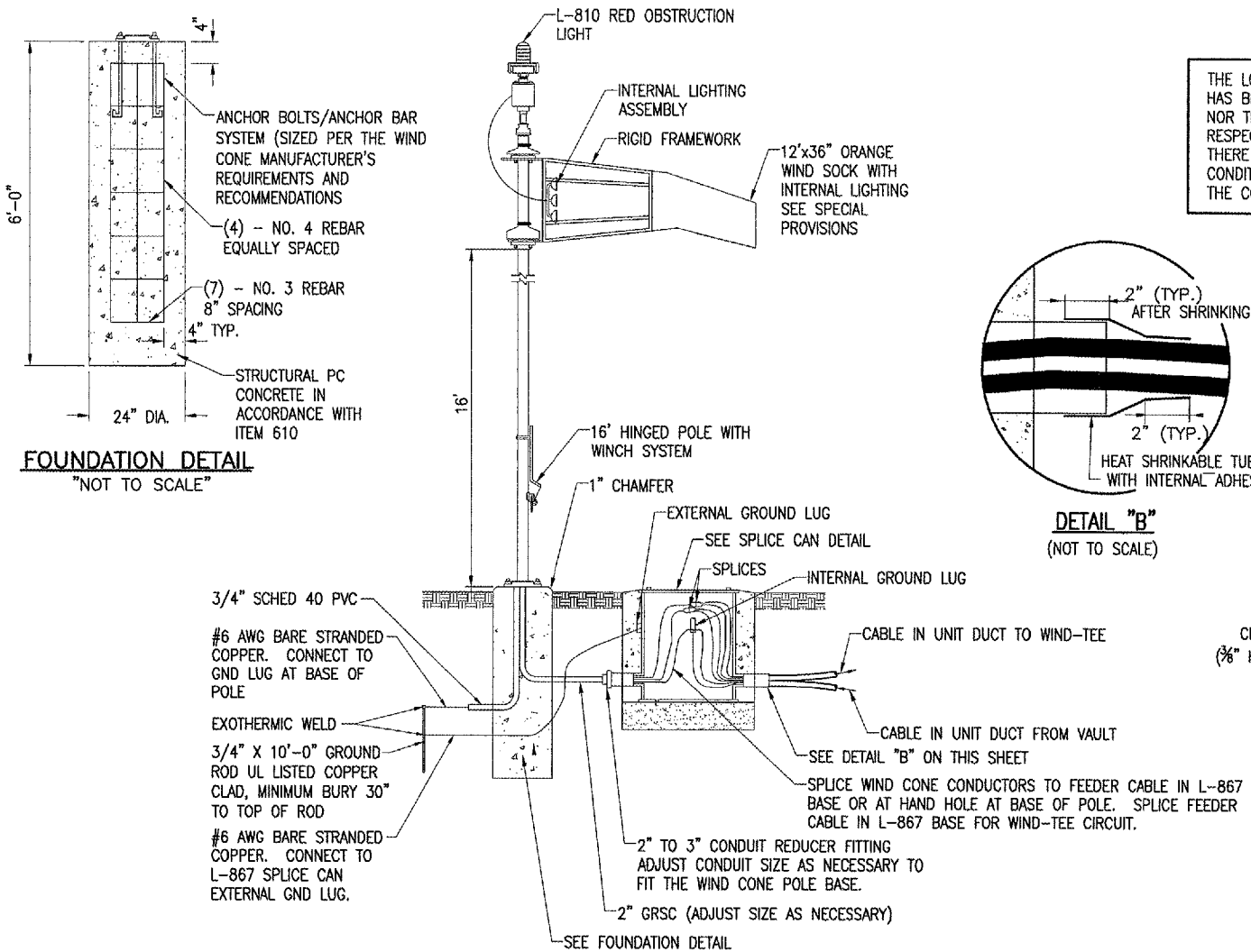
IL PROJ.: E21-3533 A.I.P. PROJ.: 3-17-0058-810

HE Project No. 810-06TXYD 0800	File Name R-142ELE.DWG	Scale 1"=30'	Date 08/02/05
LAYOUT	R.A.W.	08/02/05	08/02/05
DRAWN	B.A.K.	08/02/05	08/02/05
REVIEWED	C.A.H.	xx/xx/xx	xx/xx/xx

**HANSON**  
 Hanson Professional Services Inc.  
 3125 Dandy Trail, Suite 100  
 Indianapolis, Indiana 46214  
 Offices Nationwide

**OVERLAY TXY & APRON  
 CONSTRUCT VAULT**

PROPOSED  
 ELECTRICAL PLAN  
 STA. 20+00 TO STA. 26+00

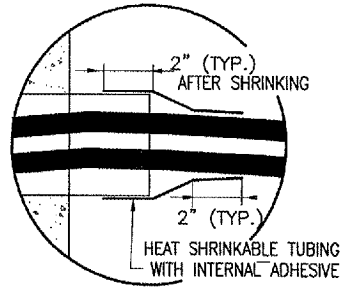


**FOUNDATION DETAIL**  
"NOT TO SCALE"

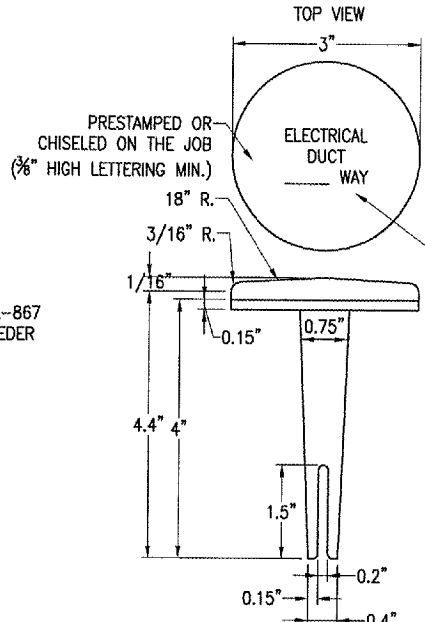
**INTERNALLY LIGHTED L-807 WIND CONE**  
"NOT TO SCALE"

- NOTES**
1. WIND CONE SHALL BE FAA APPROVED L-807, STYLE 1B INTERNALLY LIGHTED, SIZE 2 WITH ORANGE WIND SOCK, 120 VAC, & WITH L-810 OBSTRUCTION LIGHT, SEE SPECIAL PROVISION SPECS.
  2. L-807 WIND CONE 12' INTERNALLY LIT SHALL BE PAID FOR UNDER ITEM AR107812.
  3. SEE SHEETS 38, 42, 43, 46, & 49 FOR ADDITIONAL INFORMATION REGARDING WIND CONE CIRCUIT WIRING.

THE LOCATION OF UNDERGROUND UTILITIES AS INDICATED ON THE PLANS HAS BEEN OBTAINED FROM EXISTING RECORDS. NEITHER THE OWNER NOR THE ENGINEER ASSUMES ANY RESPONSIBILITY WHATSOEVER, IN RESPECT TO THE ACCURACY OR SUFFICIENCY OF THE INFORMATION AND THERE IS NO GUARANTEE, EITHER EXPRESSED OR IMPLIED, THAT THE CONDITIONS ARE REPRESENTATIVE OF THOSE TO BE ENCOUNTERED IN THE CONSTRUCTION.



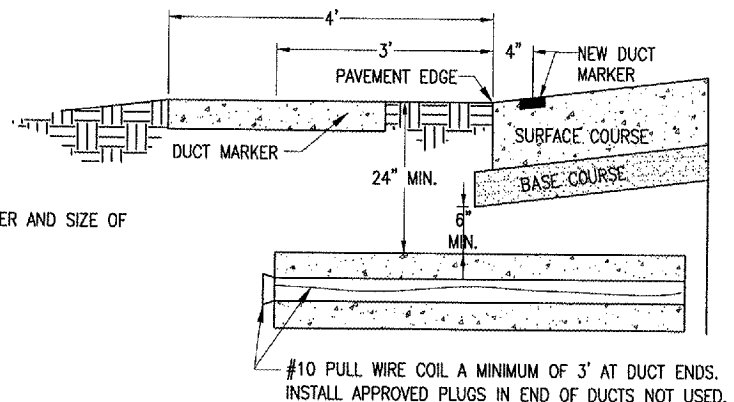
**DETAIL "B"**  
(NOT TO SCALE)



**BITUMINOUS PAVEMENT DUCT MARKERS**  
"NOT TO SCALE"

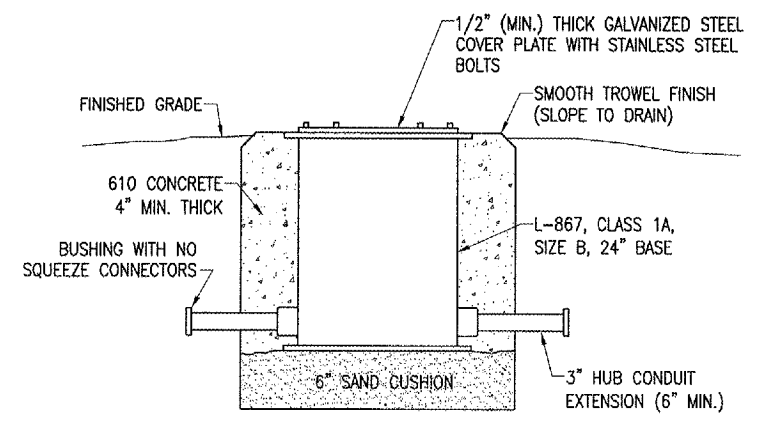
**NOTE:**  
TOP OF MARKER SHALL BE FLUSH WITH FINISHED PAVEMENT SURFACE. MARKER WILL BE INSTALLED IN A DRILLED HOLE AND SECURED WITH EPOXY GLUE.

- NOTE:**
1. THE COST OF ALL TURF AND PAVEMENT DUCT MARKERS SHALL BE INCIDENTAL TO THE DUCT. THE COST OF ALL CABLE MARKERS SHALL BE INCIDENTAL TO THE CABLE.
  2. BITUMINOUS PAVEMENT DUCT MARKER AND CONCRETE DUCT MARKER TO BE PROVIDED AT EACH END OF EACH DUCT AS SHOWN ON THE LOCATION PLAN. FOR CONCRETE PAVEMENT, THE LETTER "D" SHALL BE IMPRESSED IN THE PAVEMENT INSTEAD OF THE MARKER. THE LETTER SHALL BE IMPRESSED AS DESCRIBED IN NOTE 4.
  3. CABLE MARKERS SHALL BE PLACED AT CHANGES OF DIRECTION AND APPROXIMATELY EVERY 200' ALONG CABLE RUNS.
  4. LETTERS 4" HIGH, 3" WIDE WITH WIDTH OF STROKE 1/2" AND 1/4" DEEP. ALL LETTERS, NUMBERS AND ARROWS TO BE IMPRESSED.



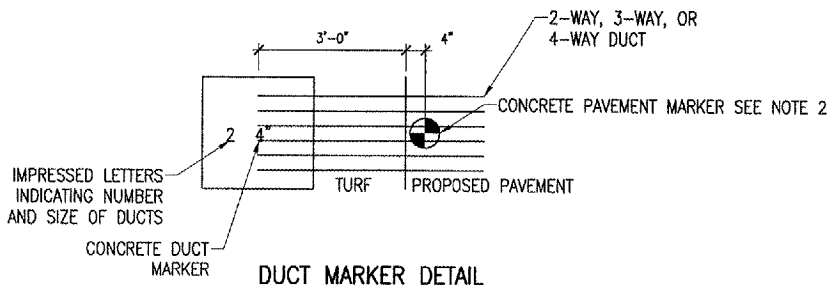
**UNDERGROUND ELECTRICAL DUCT**  
(NOT TO SCALE)

#10 PULL WIRE COIL A MINIMUM OF 3' AT DUCT ENDS. INSTALL APPROVED PLUGS IN END OF DUCTS NOT USED.

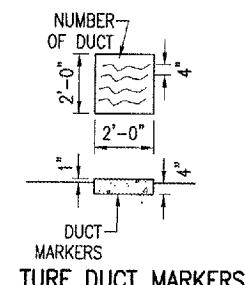


**SPLICE CAN DETAIL**  
(NOT TO SCALE)

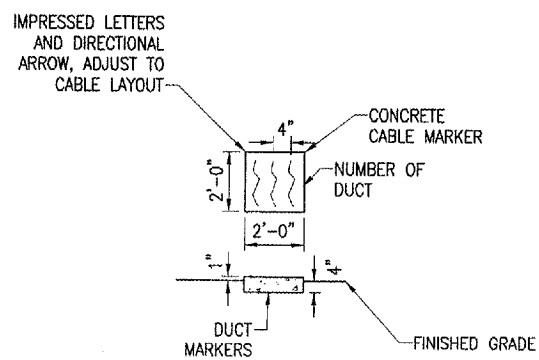
INCLUDE INTERNAL AND EXTERNAL GROUND LUGS



**DUCT MARKER DETAIL**  
"NOT TO SCALE"



**TURF DUCT MARKERS**  
"NOT TO SCALE"



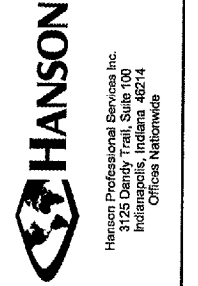
**TURF CABLE MARKERS**  
"NOT TO SCALE"

DATE	REVISION	BY

Kewanee Municipal Airport  
Kewanee, Henry County, Illinois

ILL. PROJ.: E2I-3533 A.I.P. PROJ.: 3-17-0058-810

HEL Project No. 810-067XYD 0800	11/11/05
Filename E-503.DWG	11/15/05
Scale NONE	LDP
Date 04/22/05	01/17/06
LAYOUT KNL	
DRAWN MV	
REVIEWED LDP	

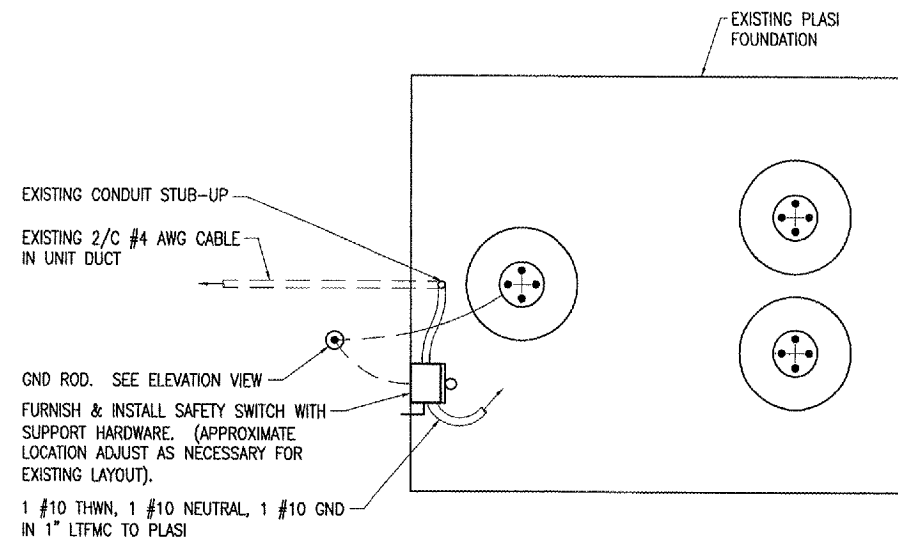


OVERLAY TXY & APRON  
CONSTRUCT VAULT  
WIND CONE  
ELEVATION DETAIL

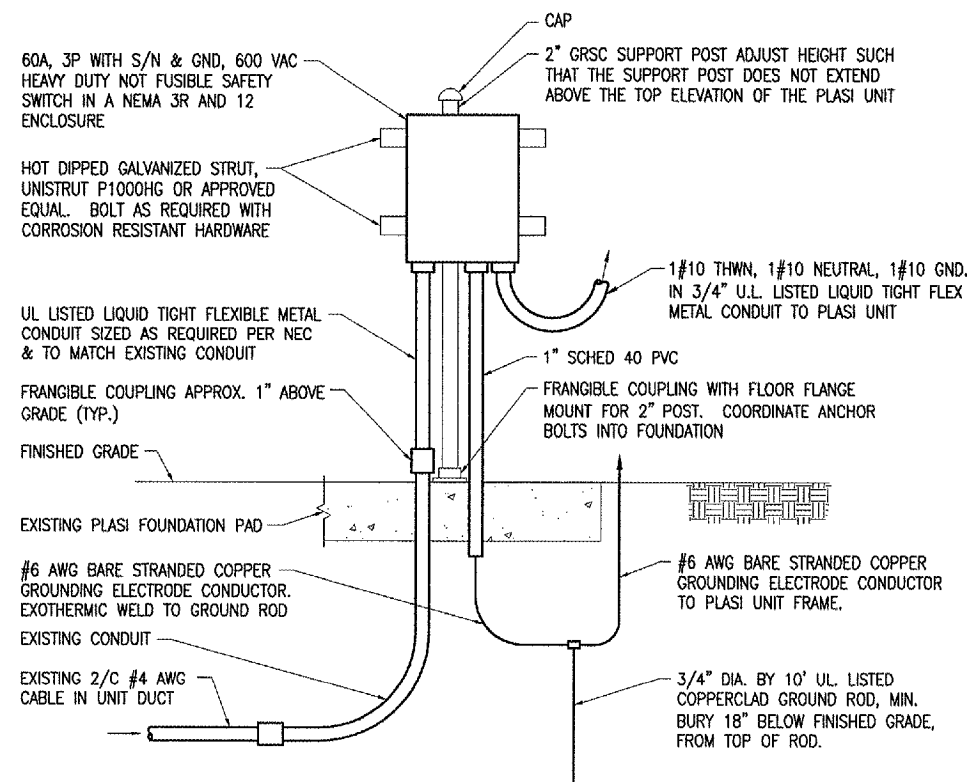
JAN 18, 2006 8:14 AM DMV  
L:\AIRPORTS\KEWANEE\810-067XYD\AIRPORT\SHEETS\E-503.DWG - ELECTRICAL DETAILS

NOTES

1. PLASI UNITS LOCATED ON RUNWAY 9-27 ARE EXISTING. A HEAVY DUTY 60 AMP, 2 POLE OR 3 POLE WITH SOLID NEUTRAL & GND, 600 VAC NOT FUSIBLE SAFETY SWITCH IN A NEMA 3R AND 12 ENCLOSURE SHALL BE FURNISHED & INSTALLED AT EACH PLASI. 60 AMP SAFETY SWITCH IS REQUIRED TO ACCOMMODATE #4 AWG OR #2 AWG CONDUCTORS FOR LUG TERMINATIONS & WIRE BENDING SPACE. NEUTRAL SHALL BE BONDED TO GROUND IN SAFETY SWITCH & GND ROD SHALL BE INSTALLED TO CONFORM WITH NEC 250.32
2. LTFMC DENOTES LIQUID TIGHT FLEXIBLE METAL CONDUIT UL LISTED, SUITABLE FOR GROUNDING, AND SUNLIGHT RESISTANT. NEC 350.6 NOTES LIQUID TIGHT FLEXIBLE METAL CONDUIT AND ASSOCIATED FITTINGS SHALL BE LISTED. DO NOT INSTALL LTFMC THAT IS NOT UL LISTED.
3. CONTRACTOR SHALL FURNISH & INSTALL BOOST TRANSFORMERS FOR PLASI UNITS IN THE VAULT. BOOST TRANSFORMERS SHALL BE SIZED & CONNECTED TO PROVIDE THE PROPER VOLTAGE AT THE RESPECTIVE PLASI UNIT AS RECOMMENDED BY THE PLASI MANUFACTURER (DEVORE AVIATION CORPORATION, 6104 JEFFERSON BLVD, N.E., ALBUQUERQUE, NEW MEXICO 87109-3410, PHONE: 505-345-8713, FAX: 505-344-3835).
4. INSTALLATION OF THE SAFETY SWITCH AND ASSOCIATED CONDUIT, WIRING, FITTINGS, GROUNDING, & ACCESSORIES FOR EACH PLASI UNIT SHALL BE PAID FOR UNDER ITEM AR125989 REFURBISH PLASI PER EACH.
5. SEE SHEETS 38, 42, 43, & 49 FOR ADDITIONAL INFORMATION REGARDING PLASI CIRCUIT WIRING.

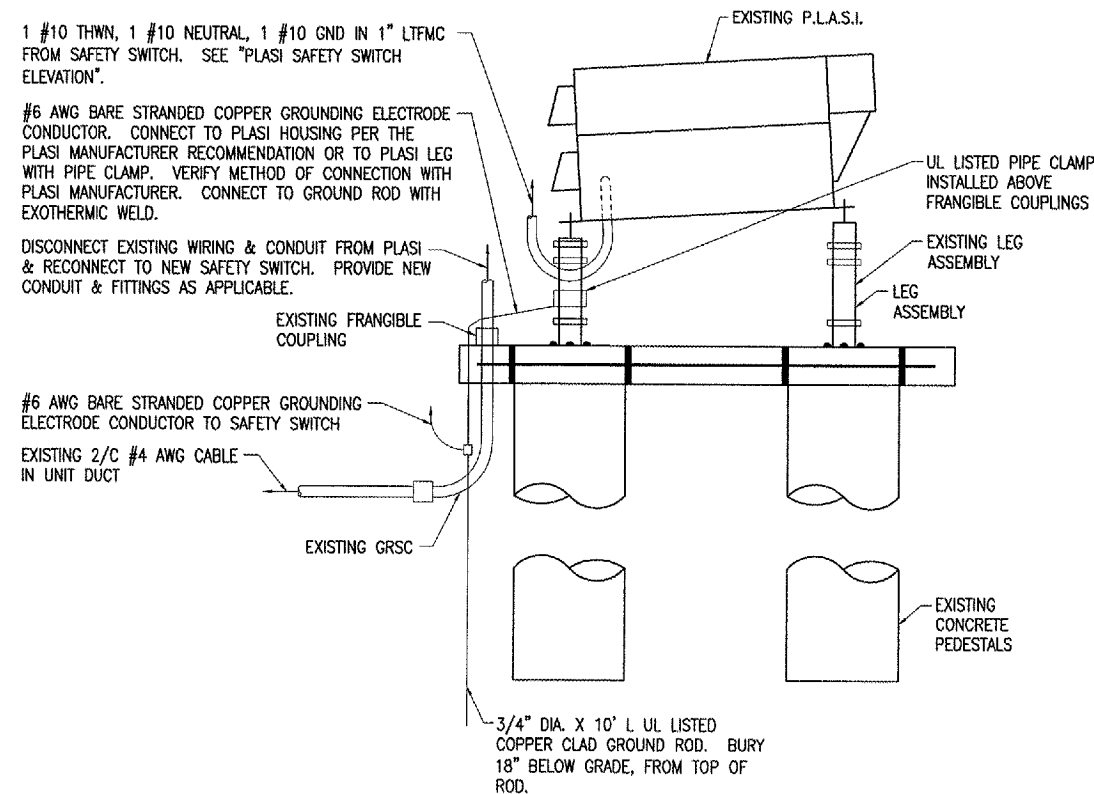


PLASI FOUNDATION PLAN VIEW



NOTE: SEE NEW ELECTRICAL ONE LINE DIAGRAM FOR VAULT AND PLASI FOR ADDITIONAL INFORMATION ON EQUIPMENT AND WIRING.

PLASI SAFETY SWITCH ELEVATION  
"NOT TO SCALE"



PLASI ELEVATION

ALL WORK SHOWN ON THIS SHEET SHALL BE PAID FOR UNDER ITEM AR125989 - REFURBISH PLASI - PER EA.

DATE	REVISION	BY

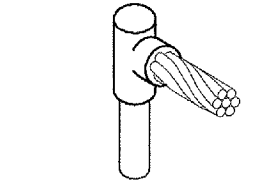
Kewanee Municipal Airport  
Kewanee, Henry County, Illinois  
A.I.P. PROJ.: 3-17-0058-B10  
I.L. PROJ.: EZI-3533

Project No.	810-067X1D-0800
Element	E-610.DWG
Scale	NONE
Date	04/22/05
LAYOUT	KNL 09/23/05
DRAWN	MW 09/27/05
REVIEWED	LDP 01/17/06

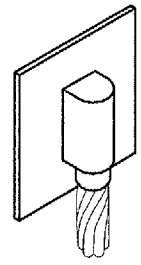


OVERLAY TXY & APRON CONSTRUCT VAULT  
PROPOSED PLASI WIRING DETAILS & NOTES

JAN 16, 2006 8:16 AM DWG  
E:\AIRPORTS\KEWANEE\B10-067X1D\AIRPORT\SHEETS\E-610.DWG - Layout1



CABLE TO GROUND ROD

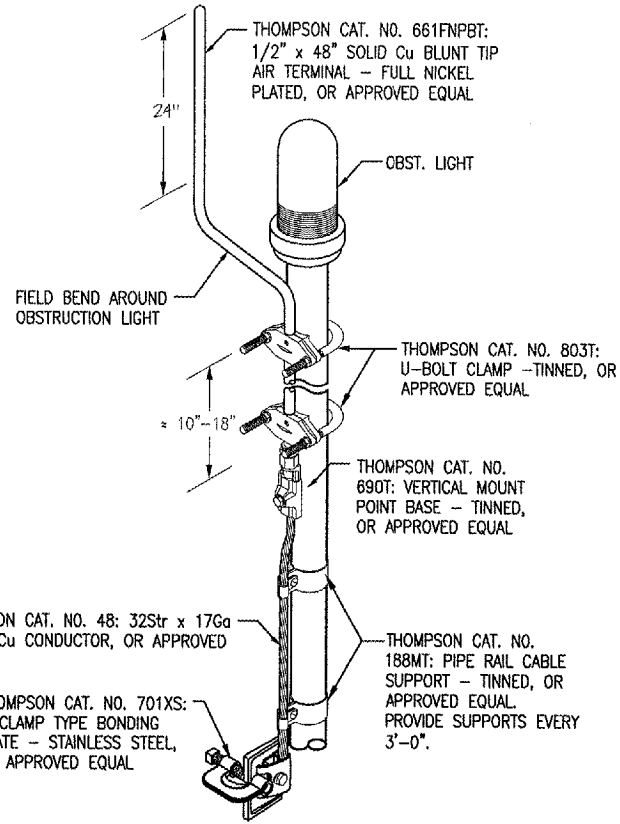


CABLE TO SURFACE

DETAIL NOTES

- EXOTHERMIC WELDS SHALL BE CADWELD AS MANUFACTURED BY ERICO PRODUCTS, SOLON, OHIO, ULTRAWELD AS MANUFACTURED BY HARGER LIGHTNING PROTECTION & GROUNDING EQUIPMENT, GRAYSLAKE, IL, OR THERMOWELD AS MANUFACTURED BY CONTINENTAL INDUSTRIES, TULSA, OKLAHOMA. VERIFY PROPER SIZES, MOLDS, TYPES, AND REQUIREMENTS FOR THE RESPECTIVE APPLICATION WITH THE MANUFACTURER, AND INSTALL PER THEIR DIRECTIONS.
- FOR APPLICATIONS TO GALVANIZED STEEL OR PAINTED STEEL, REMOVE GALVANIZING AND/OR PAINT & CLEAN THE SURFACE TO EXPOSE BARE STEEL BEFORE MAKING EXOTHERMIC WELD CONNECTION.
- VERIFY EXOTHERMIC MOLDS ARE SUITABLE FOR USE WITH THE RESPECTIVE TYPE (SOLID OR STRANDED) & SIZE CONDUCTOR.

EXOTHERMIC WELD DETAILS

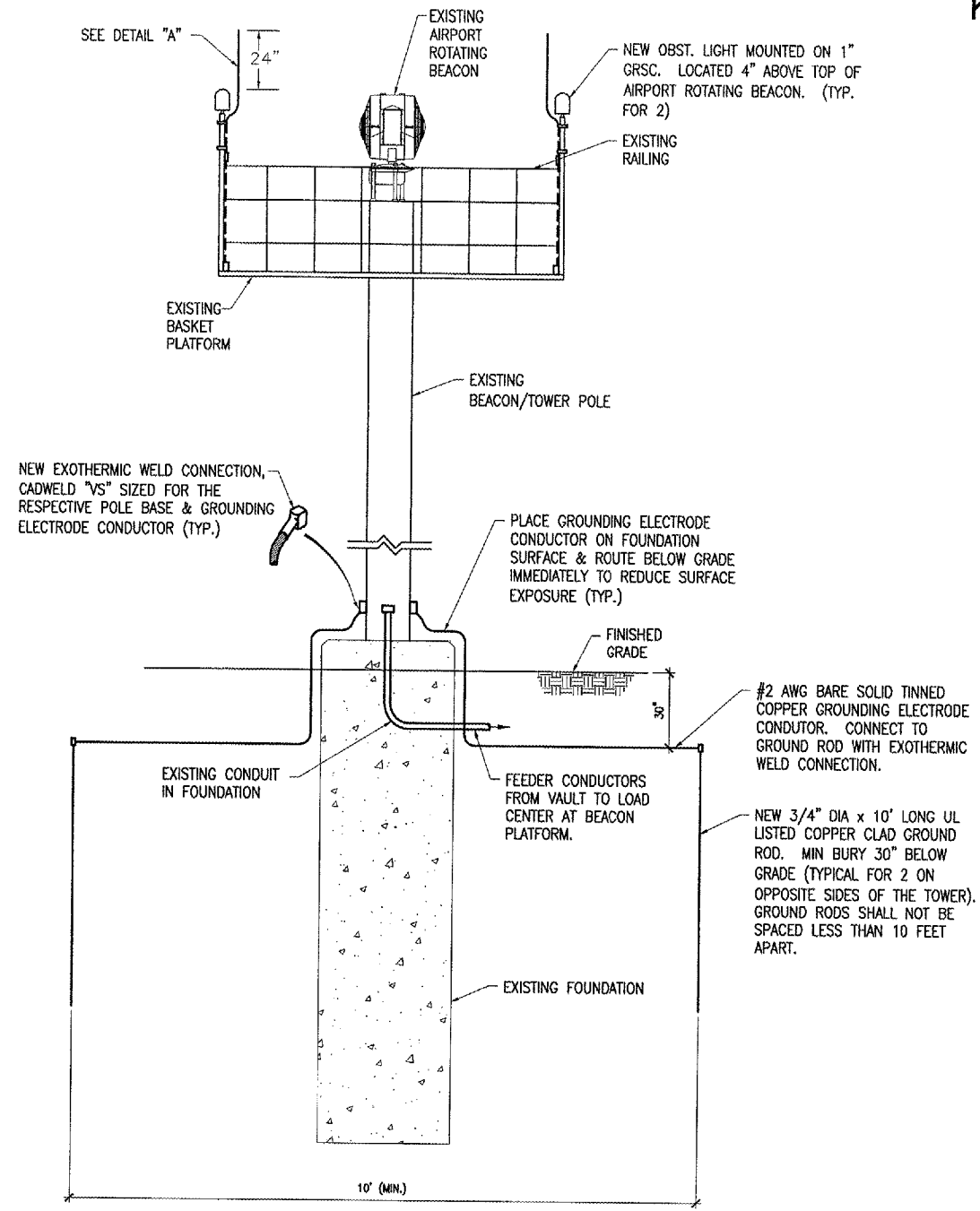


DETAIL A

NTS

NOTES

- REFERENCES TO THOMPSON ARE THOMPSON LIGHTNING PROTECTION INC., 901 SIBLEY MEMORIAL HWY, ST. PAUL, MN 55188, PHONE: 651-455-7661, 800-777-1230, FAX: 651-455-2545.
- VERIFY LIGHTNING PROTECTION COMPONENTS AND CATALOG NUMBERS WITH THE RESPECTIVE LIGHTNING PROTECTION EQUIPMENT MANUFACTURER.



LIGHTNING PROTECTION DETAIL FOR AIRPORT ROTATING BEACON

NTS

AIRPORT ROTATING BEACON PANEL			
CKT #	DUTY	SIZE	CKT #
1	AIRPORT ROTATING BEACON	15A 1P	2
3	OBSTRUCTION LIGHTS	15A 1P	4
5	BLANK		6
7	GFCI RECEPTACLE	20A 1P	8
9	BLANK		10
11	BLANK		12

GND S/N

125 AMP, 120/240 VAC, 1 PHASE, 3 WIRE, 12 CIRCUIT LOAD CENTER WITH CONVERTIBLE MAIN LUGS IN A NEMA 3R RAIN PROOF ENCLOSURE, SQUARE D CAT. NO. QO112L125GRB OR APPROVED EQUAL.

NOTES

- INCLUDE EQUIPT GROUND BAR KIT.
- ALL BREAKERS SHALL HAVE 10,000 AIC RATING AT 120/240 VAC.
- PHASE "A" SHALL BE SWITCHED THROUGH A LIGHTING CONTACTOR AT THE VAULT. PHASE "B" SHALL BE UNSWITCHED.
- INCLUDE ENGRAVED PHENOLIC LEGEND PLATE LABELED ARB PANEL, 120/240 VAC, 1PH, 3W, FED FROM VAULT.

NOTE: SEE SHEETS 38, 42, 43, & 46 FOR ADDITIONAL INFORMATION REGARDING WIRING FOR THE AIRPORT ROTATING BEACON CIRCUIT.

ALL WORK SHOWN ON THIS SHEET SHALL BE PAID FOR UNDER ITEM AR800591 - UPGRADE AIRPORT ROTATING BEACON - PER L.S.

DATE	REVISION	BY

Kewanee Municipal Airport  
Kewanee, Henry County, Illinois

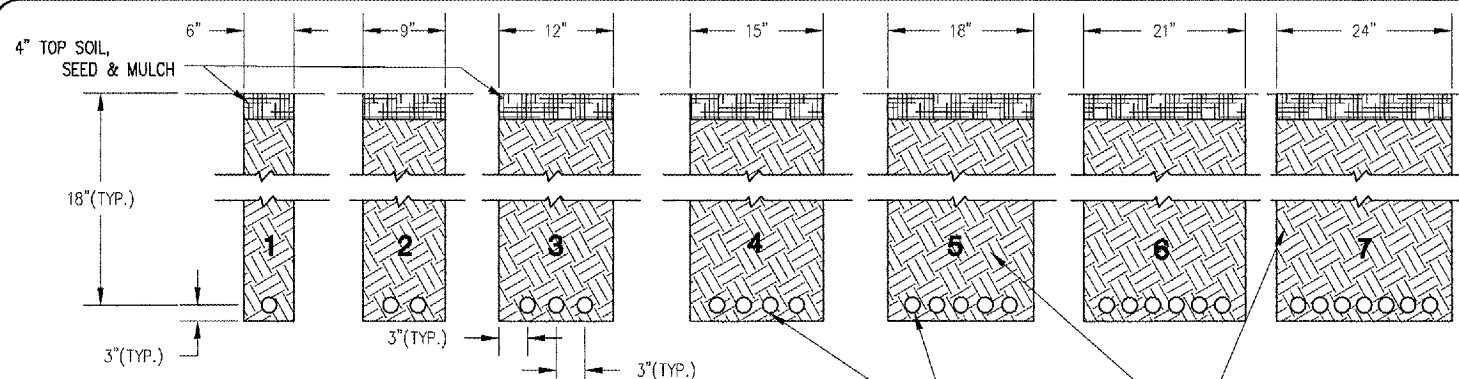
ILL. PROJ.: E21-3533 A.I.P. PROJ.: 3-17-0058-810

REI Project No. 810-08TXND 0800	Scale NONE	Date 04/22/05	LAYOUT	09/23/05
File Name E-502.DWG	Scale NONE	Date 04/22/05	DRAWN	09/27/05
			REVIEWED	01/17/06

**HANSON**  
Hanson Professional Services, Inc.  
3125 Dandy Trail, Suite 48214  
Indianapolis, Indiana 46214  
Offices Nationwide

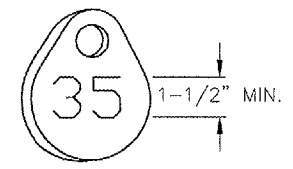
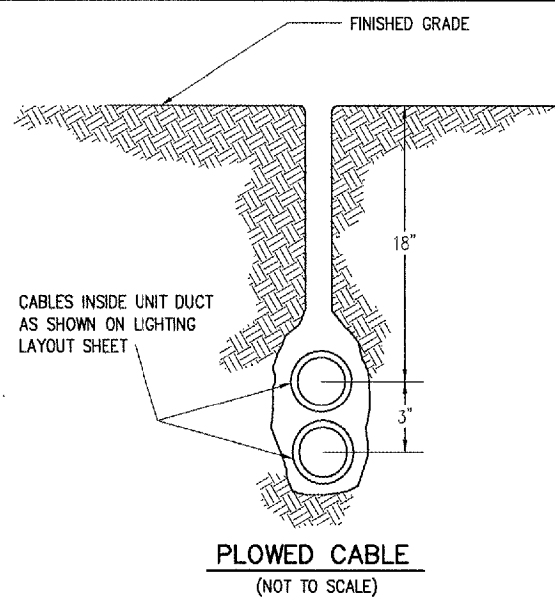
OVERLAY TXY & APRON  
CONSTRUCT VAULT  
LIGHTNING PROTECTION  
DETAILS FOR BEACON

JAN 18, 2006 8:17 AM DMV  
I:\AIRPORTS\KEWANEE\810-08TXND\AIRPORT\SHEETS\E-502.DWG -- Work-FLR

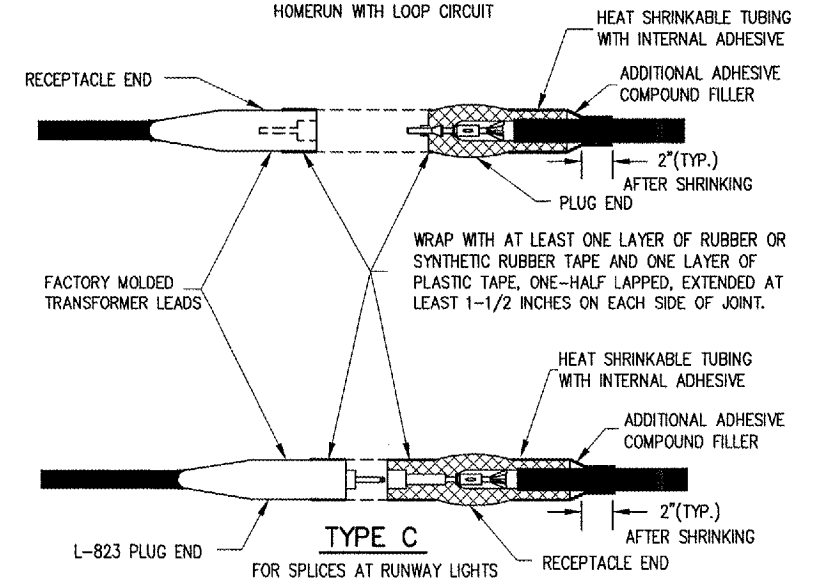
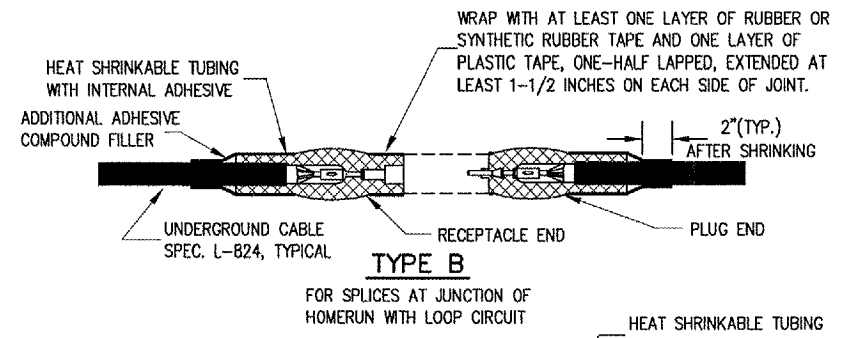
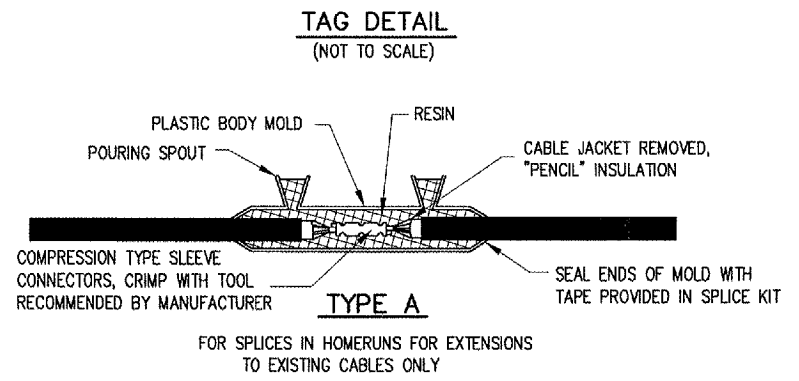


**NOTES:**

1. DETAIL NUMBERS INDICATE NO. OF CABLES.
2. TRENCHES WITH MORE THAN SEVEN CABLES SHALL BE INCREASED 3" IN WIDTH FOR EACH ADDITIONAL CABLE; IF SPECIFIED ON PLANS TWO PARALLEL TRENCHES MAY BE CONSTRUCTED.
3. DEPTH OF TRENCHES SHALL BE AS SHOWN ABOVE UNLESS OTHERWISE SPECIFIED ON THE PLANS.
4. ALL DISTURBED SURFACES SHALL BE RESTORED TO THEIR ORIGINAL CONDITION. COST IS INCIDENTAL TO TRENCH. RETURFING MATERIALS AND RATES MAY BE SHOWN ON THE PLANS.

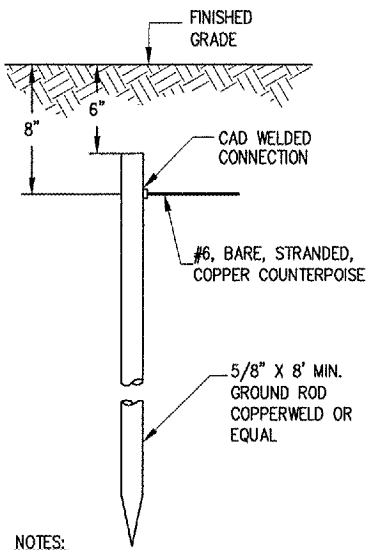


**NOTE:**  
AFFIX NON-CORROSIVE TAG TO FIXTURE FACING RUNWAY WITH SET SCREW, WIRE TIE, OR METAL BAND. NUMERALS SHALL BE ENGRAVED FOR PERMANENT READABILITY.



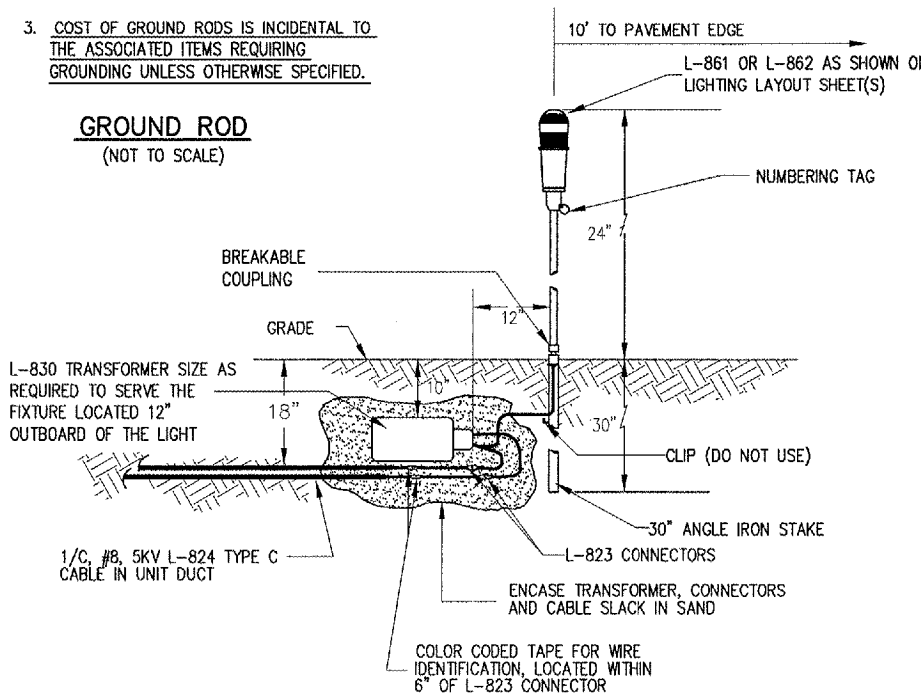
**NOTES:**  
SEE LIGHTING LAYOUT SHEET(S) FOR SPLICE TYPE.  
INSIDE DIAMETER OF CONNECTOR SHALL PROPERLY MATCH THE OUTSIDE DIAMETER OF CABLE.

**CABLE SPLICES**  
(NOT TO SCALE)



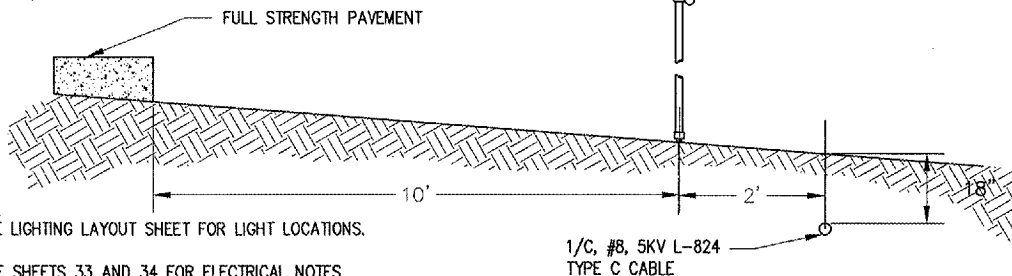
- NOTES:**
1. TYPE AND MINIMUM NUMBER OF GROUND RODS SHALL BE AS SPECIFIED ON THE PLAN.
  2. THE RESISTANCE TO GROUND OF THE COUNTERPOISE GROUNDING SYSTEM SHALL NOT EXCEED 25 OHMS.
  3. COST OF GROUND RODS IS INCIDENTAL TO THE ASSOCIATED ITEMS REQUIRING GROUNDING UNLESS OTHERWISE SPECIFIED.

**GROUND ROD**  
(NOT TO SCALE)



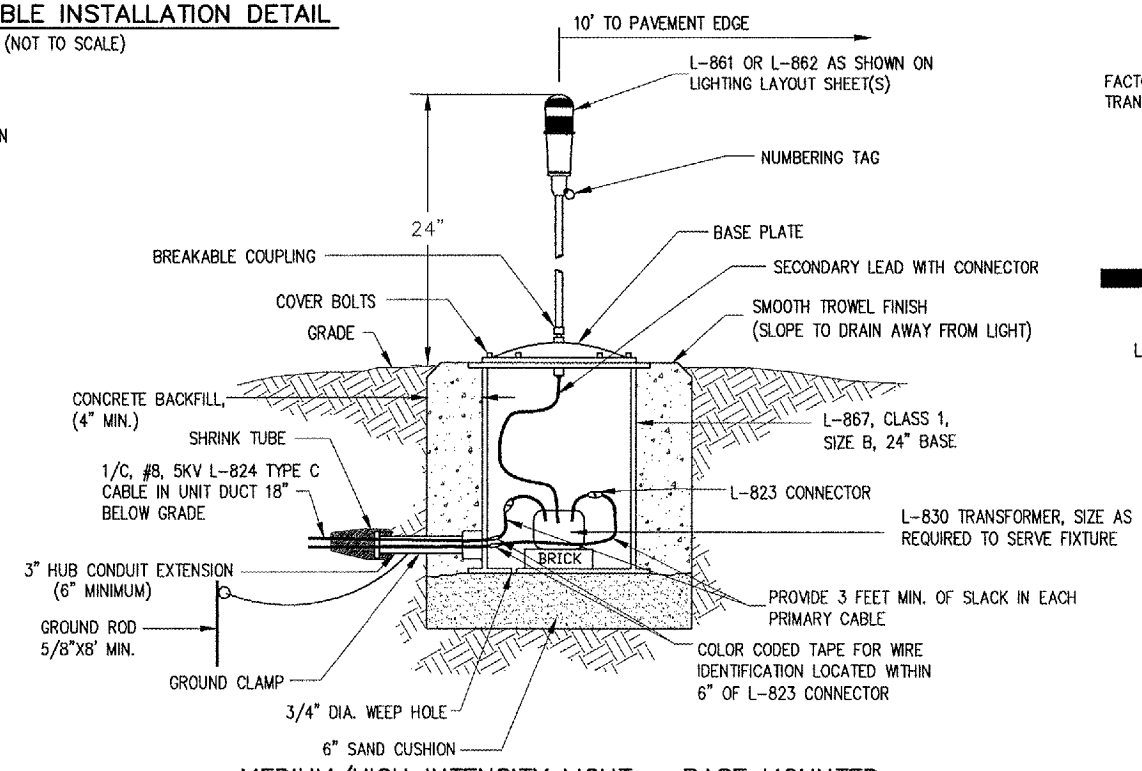
**MEDIUM INTENSITY LIGHT - STAKE MOUNTED**  
(NOT TO SCALE)

**CABLE TRENCHES**  
(NOT TO SCALE)



- NOTES:**
1. SEE LIGHTING LAYOUT SHEET FOR LIGHT LOCATIONS.
  2. SEE SHEETS 33 AND 34 FOR ELECTRICAL NOTES.

**LIGHT AND CABLE INSTALLATION DETAIL**  
(NOT TO SCALE)



**MEDIUM/HIGH INTENSITY LIGHT - BASE MOUNTED**  
(NOT TO SCALE)

DATE	REVISION	BY

KEWANEE MUNICIPAL AIRPORT  
KEWANEE, HENRY COUNTY, ILLINOIS

IL PROJ.: E2-3533 A.I.P. PROJ.: 3-17-0058-B10

Project No.	810-06TXYD 0800
Drawn	R-502EDET.DWG
Scale	N/A
Date	09/02/05
Author	09/02/05
Drawn	09/02/05
Reviewed	XX/XX/XX



Hanson Professional Services Inc.  
3125 Dandy Trail, Suite 100  
Indianapolis, Indiana 46214  
Offices Nationwide

OVERLAY TXY & APRON  
CONSTRUCT VAULT

ELECTRICAL DETAILS

JAN 18, 2006 10:55 PM RAW L:\AIRPORTS\KEWANEE\810-06TXYD\AIRPORT\SHEETS\R-502EDET.DWG - ELEC. DETAILS

DATE	REVISION

BY  
DATE

Kewanee Municipal Airport  
Kewanee, Henry County, Illinois

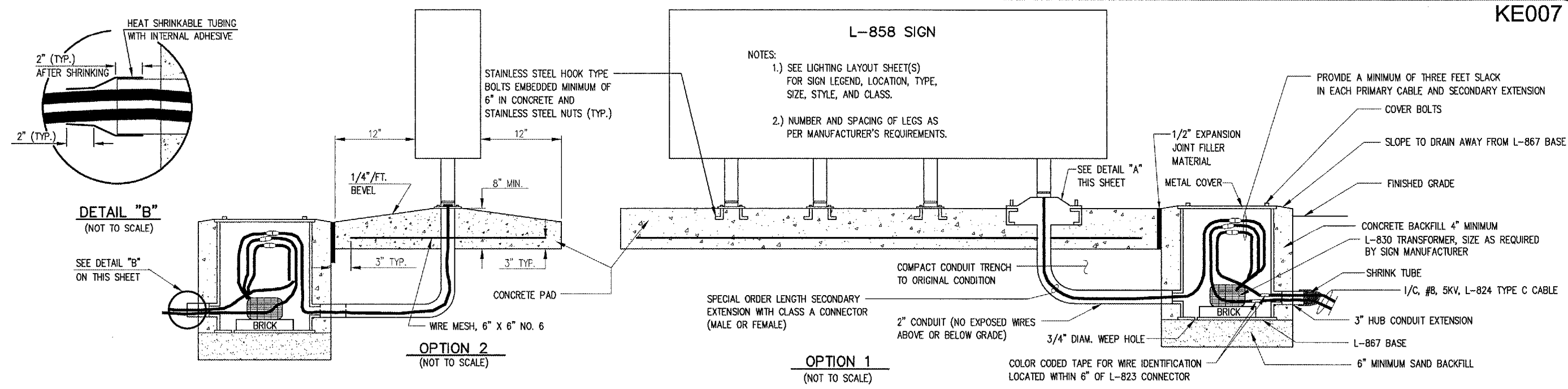
A.L.P. PROJ.: 3-17-0058-B10  
I.L. PROJ.: EZI-3533

Project No.	810-06TXXD_0800
Drawings	R-501ELED.DWG
Scale	N/A
Date	09/02/05
LAYOUT	R.A.W. 09/02/05
DRAWN	B.A.K. 09/02/05
REVIEWED	C.A.H. XX/XX/XX

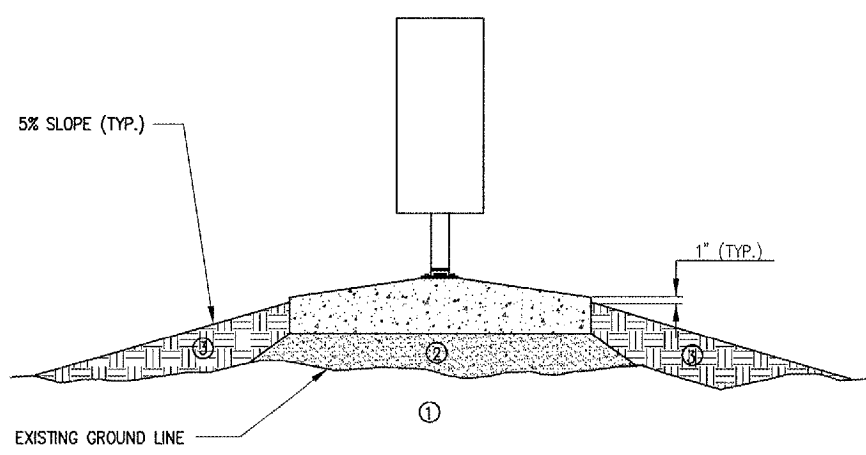
**HANSON**  
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Indianapolis, Indiana 46214  
Offices Nationwide

OVERLAY TXY & APRON  
CONSTRUCT VAULT

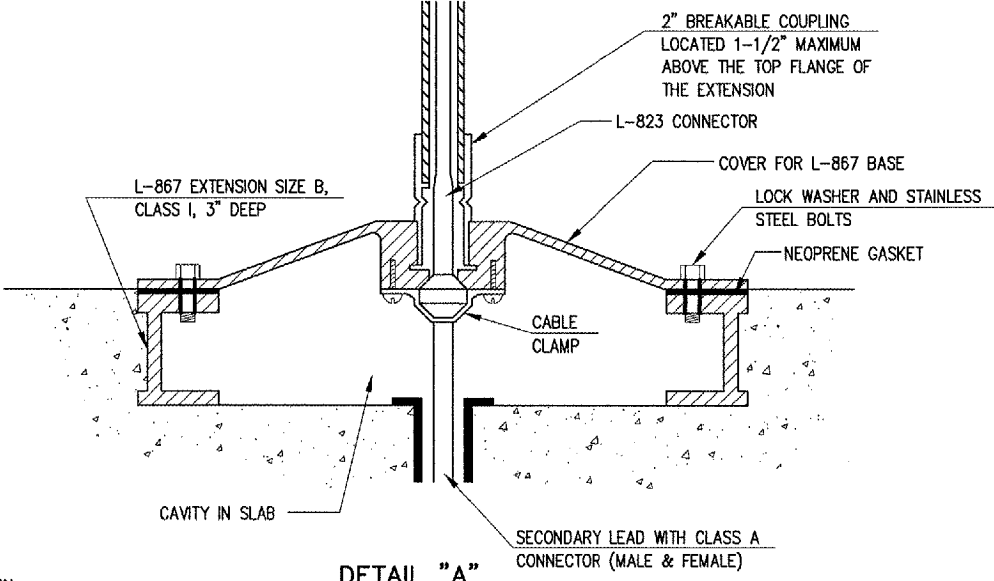
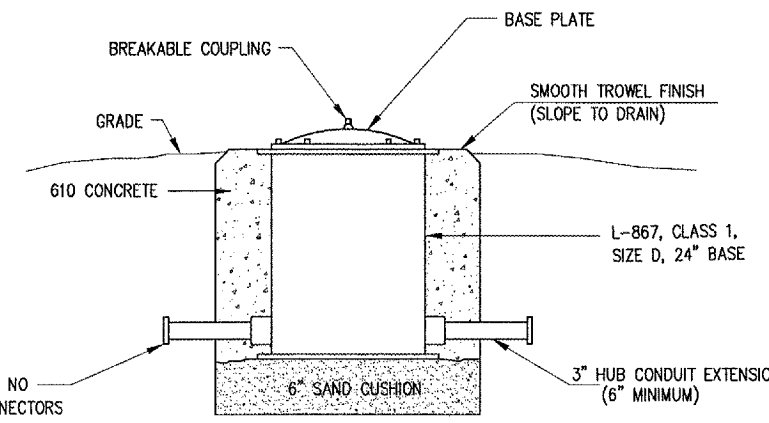
ELECTRICAL DETAILS



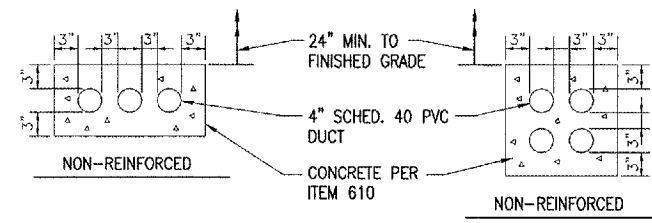
THE LOCATION OF UNDERGROUND UTILITIES AS INDICATED ON THE PLANS HAS BEEN OBTAINED FROM EXISTING RECORDS. NEITHER THE OWNER NOR THE ENGINEER ASSUMES ANY RESPONSIBILITY WHATSOEVER, IN RESPECT TO THE ACCURACY OR SUFFICIENCY OF THE INFORMATION AND THERE IS NO GUARANTEE, EITHER EXPRESSED OR IMPLIED, THAT THE CONDITIONS ARE REPRESENTATIVE OF THOSE TO BE ENCOUNTERED IN THE CONSTRUCTION.



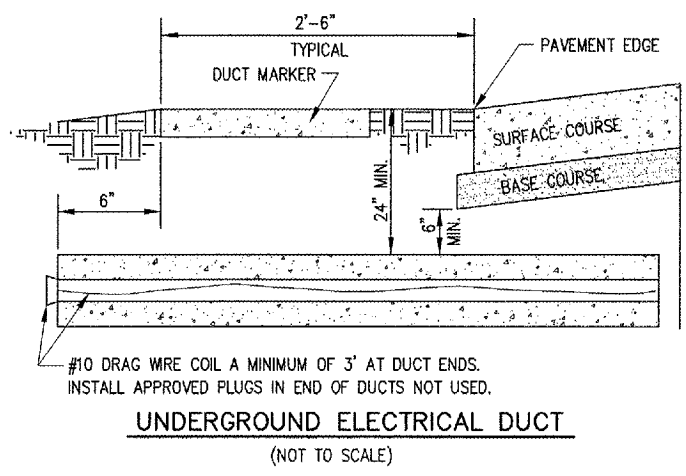
- ① EXISTING SOD TO BE STRIPPED AND REMOVED
- ② SAND BACKFILL, VARIABLE DEPTH
- ③ PROPOSED TOPSOIL BACKFILL MATERIAL



- GENERAL NOTES**
1. SEE LIGHTING LAYOUT SHEET FOR SIGN LEGEND, LOCATION, TYPE, SIZE, STYLE, AND CLASS.
  2. SEE SHEETS 33 THROUGH 34 FOR ELECTRICAL NOTES.



- NOTES:
- 1.) ALL DIMENSIONS ARE MINIMUM.
  - 2.) INCLUDE DUCT SPACERS AS MANUFACTURED BY UNDERGROUND DEVICES INC., TO MAINTAIN PROPER SEPARATION OF CONDUITS.



JAN 18, 2006 10:55 PM RAW I:\AIRPORTS\KEWANEE\810-06TXXD\AIRPORT SHEETS\R-501ELED.DWG - ELEC. DETAILS



GENERAL

1. THE ELECTRICAL INSTALLATION, AS A MINIMUM, SHALL MEET THE NATIONAL ELECTRICAL CODE (LATEST RECOGNIZED VERSION) AND LOCAL REGULATIONS.
2. THE CONTRACTOR SHALL ASCERTAIN THAT ALL LIGHTING SYSTEM COMPONENTS FURNISHED BY HIM, INCLUDING FAA APPROVED EQUIPMENT, ARE COMPATIBLE IN ALL RESPECTS WITH EACH OTHER AND THE REMAINDER OF THE NEW/EXISTING SYSTEM. ANY NONCOMPATIBLE COMPONENTS FURNISHED BY THIS CONTRACTOR SHALL BE REPLACED BY HIM AT NO ADDITIONAL COST TO THE AIRPORT SPONSOR WITH A SIMILAR UNIT, APPROVED BY THE ENGINEER (DIFFERENT MODEL OR DIFFERENT MANUFACTURER) THAT IS COMPATIBLE WITH THE REMAINDER OF THE AIRPORT LIGHTING SYSTEM.
3. IN CASE THE CONTRACTOR ELECTS TO FURNISH AND INSTALL AIRPORT LIGHTING EQUIPMENT REQUIRING ADDITIONAL WIRING, TRANSFORMERS, ADAPTORS, MOUNTINGS, ETC., TO THOSE SHOWN ON THE DRAWINGS AND/OR LISTED IN THE SPECIFICATION, ANY COST FOR THESE ITEMS SHALL BE INCIDENTAL TO THE EQUIPMENT COST.
4. THE CONTRACTOR INSTALLED EQUIPMENT (INCLUDING FAA APPROVED) SHALL NOT GENERATE ANY ELECTROMAGNETIC INTERFERENCE IN THE EXISTING AND/OR NEW COMMUNICATIONS, WEATHER, AIR NAVIGATION, AND AIR TRAFFIC CONTROL EQUIPMENT. ANY EQUIPMENT GENERATING SUCH INTERFERENCE SHALL BE REPLACED BY THE CONTRACTOR AT NO ADDITIONAL COST WITH THE EQUIPMENT MEETING THE APPLICABLE SPECIFICATIONS AND NOT GENERATING ANY INTERFERENCE.
5. WHEN A SPECIFIC TYPE, STYLE, CLASS, ETC. OF FAA APPROVED EQUIPMENT IS SPECIFIED ONLY THAT TYPE, STYLE, CLASS, WILL BE ACCEPTABLE, EVEN THOUGH EQUIPMENT OF OTHER TYPES STYLES, CLASSES, ETC. MAY BE APPROVED.
6. ANY AND ALL INSTRUCTIONS FROM THE ENGINEER TO THE CONTRACTOR REGARDING CHANGES IN OR DEVIATIONS FROM THE PLANS AND SPECIFICATIONS SHALL BE IN WRITING WITH COPIES SENT TO THE AIRPORT SPONSOR AND THE FAA FIELD OFFICE (ADO/AFO). THE CONTRACTOR SHALL NOT ACCEPT ANY VERBAL INSTRUCTIONS FROM THE RESIDENT ENGINEER REGARDING ANY CHANGES FROM THE PLANS AND SPECIFICATIONS.
7. A MINIMUM OF THREE COPIES OF THE INSTRUCTION BOOK SHALL BE SUPPLIED WITH EACH DIFFERENT TYPE OF EQUIPMENT. THE BOOKS DESCRIBING A MORE SOPHISTICATED TYPE OF EQUIPMENT, SUCH AS REGULATORS, PAPI, REL, ETC. AS A MINIMUM SHALL CONTAIN THE FOLLOWING:
  - A. A DETAILED DESCRIPTION OF THE OVERALL EQUIPMENT AND ITS INDIVIDUAL COMPONENTS.
  - B. THEORY OF OPERATION INCLUDING THE FUNCTION OF EACH COMPONENT.
  - C. INSTALLATION INSTRUCTIONS.
  - D. START-UP INSTRUCTIONS.
  - E. PREVENTATIVE MAINTENANCE REQUIREMENTS.
  - F. CHART FOR TROUBLE-SHOOTING.
  - G. COMPLETE POWER AND CONTROL DETAILED WIRING DIAGRAM(S), SHOWING EACH CONDUCTOR/CONNECTION/COMPONENT - "BLACK" BOXES ARE NOT ACCEPTABLE. THE DIAGRAM OF THE NARRATIVE SHALL SHOW VOLTAGE/CURRENTS/WAVE SHAPES AT STRATEGIC LOCATIONS TO BE USED WHEN CHECKING AND/OR TROUBLE-SHOOTING THE EQUIPMENT. WHEN THE EQUIPMENT HAS SEVERAL MODES OF OPERATION, SUCH AS SEVERAL BRIGHTNESS STEPS, THESE PARAMETERS SHALL BE INDICATED FOR ALL DIFFERENT MODES.
  - H. PARTS LIST WHICH WILL INCLUDE ALL MAJOR AND MINOR COMPONENTS SUCH AS RESISTORS, DIODES, ETC. IT SHALL INCLUDE A COMPLETE NOMENCLATURE OF EACH COMPONENT AND, IF APPLICABLE, THE NAME OF ITS MANUFACTURER AND THE CATALOG NUMBER.
  - I. SAFETY INSTRUCTIONS.

POWER AND CONTROL

1. STENCIL ALL ELECTRICAL EQUIPMENT TO IDENTIFY FUNCTION, CIRCUIT VOLTAGE AND PHASE. WHERE THE EQUIPMENT CONTAINS FUSES, ALSO STENCIL THE FUSE OR FUSE LINK AMPERE RATING. WHERE THE EQUIPMENT DOES NOT HAVE SUFFICIENT STENCILING AREA, THE STENCILING SHALL BE DONE ON THE WALL NEXT TO THE UNIT. THE LETTERS SHALL BE ONE INCH HIGH AND PAINTED IN WHITE OR BLACK TO PROVIDE THE HIGHEST CONTRAST WITH THE BACKGROUND.
2. COLOR CODE ALL PHASE WIRING BY THE USE OF COLORED WIRE INSULATION AND/OR COLORED TAPE. WHERE TAPE IS USED, THE WIRE INSULATION SHALL BE BLACK, BLACK AND RED SHALL BE USED FOR SINGLE-PHASE, THREE WIRE SYSTEMS AND BLACK, RED AND BLUE SHALL BE USED FOR THREE-PHASE SYSTEMS. NEUTRAL CONDUCTORS, SIZE NO. 6 AWG OR SMALLER, SHALL BE IDENTIFIED BY A CONTINUOUS WHITE OR NATURAL GRAY OUTER FINISH ALONG ITS ENTIRE LENGTH. NEUTRAL CONDUCTORS LARGER THAN NO. 6 AWG SHALL BE IDENTIFIED EITHER BY A CONTINUOUS WHITE OR NATURAL GRAY OUTER FINISH ALONG ITS ENTIRE LENGTH OR BY THE USE OF WHITE TAPE AT ITS TERMINATIONS AND INSIDE ACCESSIBLE WIREWAYS.
3. ALL BRANCH CIRCUIT CONDUCTORS CONNECTED TO A PARTICULAR PHASE SHALL BE IDENTIFIED WITH THE SAME COLOR. THE COLOR CODING SHALL BE EXTENDED TO THE POINT OF UTILIZATION.
4. IN CONTROL WIRING THE SAME COLOR SHALL BE USED THROUGHOUT THE SYSTEM FOR THE SAME FUNCTION, SUCH AS 10%, 30%, 100% BRIGHTNESS CONTROL, ETC.
5. LOW VOLTAGE (600 V.) AND HIGH VOLTAGE (5000 V.) CONDUCTORS SHALL BE INSTALLED IN SEPARATE WIREWAYS.
6. NEATLY LACE WIRING IN DISTRIBUTION PANELS, WIREWAYS, SWITCHES AND JUNCTION/PULL BOXES.
7. THE MINIMUM SIZE OF PULL/JUNCTION BOXES, REGARDLESS OF THE QUANTITY AND SIZE OF THE CONDUCTORS SHOWN, SHALL BE AS FOLLOWS:
  - A. IN STRAIGHT PULLS THE LENGTH OF THE BOX SHALL NOT BE LESS THAN EIGHT TIMES THE TRADE DIAMETER OF THE LARGER CONDUIT. THE TOTAL AREA (INCLUDING THE CONDUIT CROSS-SECTIONAL AREA) OF A BOX END SHALL BE AT LEAST 3 TIMES GREATER THAN THE TOTAL TRADE CROSS-SECTIONAL AREA OF THE CONDUITS TERMINATING AT THE END.
  - B. IN ANGLE PULLS OR 'U' PULLS THE DISTANCE BETWEEN EACH CONDUIT ENTRY INSIDE THE BOX AND THE OPPOSITE WALL OF THE BOX SHALL NOT BE LESS THAN SIX (6) TIMES THE TRADE DIAMETER OF THE LARGEST CONDUIT. THIS DISTANCE SHALL BE INCREASED FOR ADDITIONAL ENTRIES BY THE AMOUNT OF THE SUM OF THE DIAMETERS OF ALL OTHER CONDUIT ENTRIES ON THE SAME WALL AS THE BOX. THE DISTANCE BETWEEN CONDUIT ENTRIES ENCLOSING THE SAME CONDUCTOR SHALL NOT BE LESS THAN SIX TIMES THE TRADE DIAMETER OF THE LARGEST CONDUIT.
8. A RUN OF CONDUIT BETWEEN TERMINATIONS AT EQUIPMENT ENCLOSURES, SQUARE DUCTS AND PULL/JUNCTION BOXES, SHALL NOT CONTAIN MORE THAN THE EQUIVALENT OF FOUR QUARTER BENDS (360 DEGREES TOTAL), INCLUDING THOSE BENDS LOCATED IMMEDIATELY AT THE TERMINATIONS, CAST, CONDUIT TYPE OUTLETS SHALL NOT BE TREATED AS PULL/JUNCTION BOXES.
9. EQUIPMENT CABINETS SHALL NOT BE USED AS PULL/JUNCTION BOXES. ONLY WIRING TERMINATING AT THE EQUIPMENT SHALL BE BROUGHT INTO THESE ENCLOSURES.
10. SPLICES AND JUNCTION POINTS SHALL BE PERMITTED ONLY IN JUNCTION BOXES, DUCTS EQUIPPED WITH REMOVABLE COVERS, AND AT EASILY ACCESSIBLE LOCATIONS.
11. CIRCUIT BREAKERS IN POWER DISTRIBUTION PANEL(S) SHALL BE THERMAL-MAGNETIC MOLDED CASE, PERMANENT TRIP WITH 100 AMPERE, MINIMUM FRAME.

12. DUAL LUGS SHALL BE USED WHERE TWO (2) WIRES, SIZE NO. 6 OR LARGER, ARE TO BE CONNECTED TO THE SAME TERMINAL.
13. ALL WALL MOUNTED EQUIPMENT ENCLOSURES SHALL BE MOUNTED ON WOODEN MOUNTING BOARDS.
14. WOODEN EQUIPMENT MOUNTING BOARDS SHALL BE PLYWOOD, EXTERIOR TYPE, 3/4 INCH, MINIMUM, THICKNESS, BOTH SIDES PAINTED WITH ONE COAT OF PRIMER AND TWO COATS OF GRAY OIL-BASED PAINT.
15. RIGID STEEL CONDUIT SHALL BE USED THROUGHOUT THE INSTALLATION UNLESS OTHERWISE SPECIFIED. THE MINIMUM TRADE SIZE SHALL BE 3/4 INCH.
16. ALL RIGID CONDUIT SHALL BE TERMINATED AT CONSTANT CURRENT REGULATORS WITH A SECTION (10" MINIMUM) OF FLEXIBLE CONDUIT.
17. UNLESS OTHERWISE SHOWN, ALL EXPOSED CONDUITS SHALL BE RUN PARALLEL TO OR AT RIGHT ANGLES WITH THE LINES OF THE STRUCTURE.
18. ALL STEEL CONDUITS, FITTINGS, NUTS, BOLTS, ETC. SHALL BE GALVANIZED.
19. USE CONDUIT BUSHINGS AT EACH CONDUIT TERMINATION. WHERE NO. 4 AWG OR LARGER UNDERGROUND WIRE IS INSTALLED, USE INSULATED BUSHINGS.
20. USE DOUBLE LOCK NUTS AT EACH CONDUIT TERMINATION.
21. WRAP ALL PRIMARY AND SECONDARY POWER TRANSFORMER CONNECTIONS WITH SUFFICIENT LAYERS OF INSULATING TAPE AND COVER WITH INSULATING VARNISH FOR FULL VALUE OF CABLE INSULATION VOLTAGE.
22. UNLESS OTHERWISE NOTED, ALL INDOOR SINGLE CONDUCTOR CONTROL WIRING SHALL BE NO. 12 AWG. MINIMUM.
23. THE FOLLOWING SHALL APPLY TO RELAY/CONTACTOR PANELS/ENCLOSURES:
  - A. ALL COMPONENTS SHALL BE MOUNTED IN DUST PROOF ENCLOSURE(S) WITH VERTICALLY HINGED COVERS.
  - B. THE ENCLOSURE(S) SHALL HAVE AMPLE SPACE FOR THE CIRCUIT COMPONENTS, TERMINAL BLOCKS AND INCOMING AND INTERNAL WIRING.
  - C. ALL CONTROL CONDUCTOR TERMINATIONS SHALL BE OF THE OPEN-EYE CONNECTOR/SCREW TYPE. SOLDERED CLOSED-EYE TERMINATIONS, OR TERMINATIONS WITHOUT CONNECTORS ARE NOT ACCEPTABLE.
  - D. WHEN THE ENCLOSURE COVER IS OPENED, ALL CIRCUIT COMPONENTS, WIRING AND TERMINALS SHALL BE EXPOSED AND ACCESSIBLE WITHOUT REMOVAL OF ANY PANELS, COVERS, ETC., EXCEPT THOSE COVERING HIGH VOLTAGE COMPONENTS.
  - E. ACCESS TO, OR REMOVAL OF A CIRCUIT COMPONENT OR TERMINAL BLOCK WILL NOT REQUIRE THE REMOVAL OF ANY OTHER CIRCUIT COMPONENT OR TERMINAL BLOCK.
  - F. EACH CIRCUIT COMPONENT SHALL BE CLEARLY IDENTIFIED INDICATING ITS CORRESPONDING NUMBER SHOWN ON THE DRAWINGS AND ITS FUNCTION.
  - G. A COMPLETE WIRING DIAGRAM (NOT A SCHEMATIC DIAGRAM) SHALL BE MOUNTED ON THE INSIDE OF THE COVER. THE DIAGRAM SHALL REPRESENT EACH CONDUCTOR BY A SEPARATE LINE.
  - H. THE DIAGRAM SHALL IDENTIFY EACH CIRCUIT COMPONENT AN NUMBERING AND COLOR OF EACH TERMINAL CONDUCTOR AND TERMINAL.
  - I. ALL WIRING SHALL BE NEATLY TRAINED AND LACED.
  - J. MINIMUM WIRE SIZE SHALL BE NO. 12 AWG.

REVISION	DATE	BY

KEWANEEN MUNICIPAL AIRPORT  
KEWANEEN, HENRY COUNTY, ILLINOIS

ILL. PROJ.: E21-3533 A.I.P. PROJ.: 3-17-0058-B10

HEB Printed No. 810-06TXXD 0800			
Plotters R-503-ELEC.DWG			
Scale N/A			
Date 09/02/05			
LAYOUT R.A.W. 09/02/05			
DRAWN B.A.K. 09/02/05			
REVIEWED C.A.H. XX/XX/XX			



OVERLAY TXY & APRON  
CONSTRUCT VAULT

ELECTRICAL NOTES

JAN 18, 2006 10:56 PM RAW  
I:\AIRPORTS\KEWANEEN\810-06TXXD\AIRPORT SHEETS\R-503-ELEC.DWG - ELEC. NOTES



ELECTRICAL LEGEND - ONE-LINE DIAGRAM	
	CABLE TERMINATOR/LUG
	TRANSFORMER
	DISCONNECT SWITCH
	FUSIBLE DISCONNECT SWITCH
	CIRCUIT BREAKER
	THERMAL MAGNETIC CIRCUIT BREAKER
	FUSE
	TRANSIENT VOLTAGE SURGE SUPPRESSOR OR SURGE PROTECTOR DEVICE
	GROUND - GROUND ROD, GROUNDING ELECTRODE, OR AT EARTH POTENTIAL
	INDICATING LIGHT
	MOTOR
	LOAD, MOTOR, # = HORSEPOWER
	ELECTRIC UTILITY METER BASE
	JUNCTION BOX WITH SPLICE
	EQUIPMENT, XXX = DEVICE DESCRIPTION
	GROUND BUS OR TERMINAL
	NEUTRAL BUS
	PANELBOARD WITH MAIN LUGS
	PANELBOARD WITH MAIN BREAKER
	FUSE PANEL WITH MAIN FUSE PULLOUT
	DUPLEX RECEPTACLE 120V SINGLE PHASE GROUNDING TYPE
	CONTROL STATION
	TRANSFER SWITCH
	ENGINE GENERATOR SET

ELECTRICAL LEGEND - SCHEMATIC	
	NORMALLY OPEN (N.O.) CONTACT
	NORMALLY CLOSED (N.C.) CONTACT
	STARTER COIL, * = STARTER NUMBER
	OVERLOAD RELAY CONTACT
	CONTROL RELAY, * = CONTROL RELAY NUMBER
	RELAY, * = RELAY NUMBER
	TOGGLE SWITCH / 2 POSITION SWITCH
	2-POSITION SELECTOR SWITCH
	3-POSITION SELECTOR SWITCH (H-O-A SHOWN)
	2 POLE DISCONNECT SWITCH
	3 POLE DISCONNECT SWITCH
	PHOTOCELL
	TERMINAL BLOCK, * = TERMINAL NUMBER
	DEVICE TERMINAL, * = DEVICE TERMINAL NUMBER
	INTERNAL PANEL WIRING
	FIELD WIRING
	FUSE
	GROUND BUS OR TERMINAL
	NEUTRAL BUS
	GROUND, GROUND ROD
	INDUSTRIAL CONTROL RELAY OR LIGHTING CONTACTOR
	S1 CUTOUT HANDLE REMOVED
	S1 CUTOUT HANDLE INSERTED
	N.O. THERMAL SWITCH
	N.C. THERMAL SWITCH

ELECTRICAL ABBREVIATIONS	
A.F.F.	ABOVE FINISHED FLOOR
A. AMP	AMPERES
ATS	AUTOMATIC TRANSFER SWITCH
AWG	AMERICAN WIRE GAUGE
BKR	BREAKER
C	CONDUIT
CB	CIRCUIT BREAKER
CKT	CIRCUIT
CR	CONTROL RELAY
CU	COPPER
DPDT	DOUBLE POLE DOUBLE THROW
DPST	DOUBLE POLE SINGLE THROW
EM	EMERGENCY
EMT	ELECTRICAL METALLIC TUBING
ENCL	ENCLOSURE
EP	EXPLOSION PROOF
ES	EMERGENCY STOP
ETL	INTERTEK - ELECTRICAL TESTING LABS
ETM	ELAPSE TIME METER
GFCI	GROUND FAULT CIRCUIT INTERRUPTER
GFI	GROUND FAULT INTERRUPTER
GND	GROUND
GRSC	GALVANIZED RIGID STEEL CONDUIT
HID	HIGH INTENSITY DISCHARGE
HOA	HAND OFF AUTOMATIC
HP	HORSEPOWER
HPS	HIGH PRESSURE SODIUM
J	JUNCTION BOX
KVA	KILOVOLT AMPERE(S)
KW	KILOWATTS
LC	LIGHTING CONTACTOR
LTFMC	LIQUID TIGHT FLEXIBLE METAL CONDUIT (UL LISTED)
LTG	LIGHTING
LP	LIGHTING PANEL
MAX	MAXIMUM
MCB	MAIN CIRCUIT BREAKER
MCM	THOUSAND CIRCUAR MIL
MDP	MAIN DISTRIBUTION PANEL
MFR	MANUFACTURER
MH	METAL HALIDE
MIN	MINIMUM
MLO	MAIN LUGS ONLY
NEC	NATIONAL ELECTRICAL CODE (NFPA 70)
NC	NORMALLY CLOSED
NO	NORMALLY OPEN
NTS	NOT TO SCALE
OHE	OVERHEAD ELECTRIC
OL	OVERLOAD

ELECTRICAL ABBREVIATIONS (CONTINUED)	
PB	PULL BOX
PC	PHOTO CELL
PDB	POWER DISTRIBUTION BLOCK
PNL	PANEL
RCPT	RECEPTACLE
R	RELAY
S	STARTER
SPD	SURGE PROTECTION DEVICE
SPST	SINGLE POLE SINGLE THROW
TVSS	TRANSIENT VOLTAGE SURGE SUPPRESSOR
TYP	TYPICAL
UG	UNDERGROUND
UGE	UNDERGROUND ELECTRIC
UL	UNDERWRITER'S LABORATORIES
V	VOLTS
W/	WITH
W/O	WITHOUT
WP	WEATHER PROOF
XFER	TRANSFER
XFMR	TRANSFORMER

AIRPORT EQUIPMENT ABBREVIATIONS	
CCR	CONSTANT CURRENT REGULATOR
MRL	MEDIUM INTENSITY RUNWAY LIGHT
MIL	MEDIUM INTENSITY TAXIWAY LIGHT
NDB	NON-DIRECTIONAL BEACON
PAPI	PRECISION APPROACH PATH INDICATOR
PLASI	PULSE LIGHT APPROACH SLOPE INDICATOR
REIL	RUNWAY END IDENTIFIER LIGHT
VADI	VISUAL APPROACH DESCENT INDICATOR
VASI	VISUAL APPROACH SLOPE INDICATOR
WC	WIND CONE

ELECTRICAL LEGEND - PLANS	
	CONDUIT (EXPOSED)
	CONDUIT OR UNIT DUCT (CONCEALED OR BURIED)
	DUCT
	BURIED/UNDERGROUND ELECTRIC
	UNDERGROUND ELECTRIC
	OVERHEAD ELECTRIC
	POLE MOUNTED HID FIXTURE
	DUPLEX CONVENIENCE RECEPTACLE, 120V, SINGLE PHASE, GROUNDING TYPE, 48" A.F.F. EXCEPT AS NOTED
	WALL OR CEILING MTD. JUNCTION BOX. CONFIGURATION VARIES WITH USE
	SINGLE THROW DISCONNECT SWITCH
	SINGLE THROW, FUSIBLE DISCONNECT SWITCH
	ENCLOSED CIRCUIT BREAKER
	CONTROL PANEL
	MOTOR. ESTIMATED H.P. AS INDICATED.
	MOTOR
	TRANSFORMER
	ELECTRIC UTILITY METER
	ENCLOSURE
	CIRCUIT BREAKER PANEL-SEE SCHEDULES
	GROUND ROD
	LONG SLASHES INDICATE NEUTRAL. SHORT SLASHES INDICATE HOT OR SWITCHED LEG. G = SEPARATE GROUND WIRE.
	HOMERUN TO PANEL. PNL A INDICATES PANEL. 1,3,5 INDICATES CIRCUIT NUMBERS
	SINGLE POLE SWITCH
	FRACTIONAL HP STARTER
	CONTACTOR
	SURFACE MOUNTED OR CHAIN HUNG FLUORESCENT FIXTURE
	WALL OR CEILING MTD. INCANDESCENT OR HID FIXTURE.

- NOTES:**
- ALL ELECTRICAL EQUIPMENT SHALL BE INSTALLED IN CONFORMANCE WITH NFPA 70 (MOST CURRENT ISSUE IN FORCE), THE RESPECTIVE EQUIPMENT MANUFACTURER'S DIRECTIONS AND ALL OTHER APPLICABLE LOCAL CODES, LAWS, ORDINANCES, AND REQUIREMENTS IN FORCE. ANY INSTALLATIONS WHICH VOID THE U.L. LISTING, ETL LISTING (OR OTHER THIRD PARTY LISTING) AND/OR THE MANUFACTURER'S WARRANTY OF A DEVICE SHALL NOT BE PERMITTED.
  - CONTRACTOR SHALL COORDINATE WORK AND ANY POWER OUTAGES WITH THE RESPECTIVE FACILITY OWNER PERSONNEL AND THE AIRPORT MANAGER.
  - COLOR CODE PHASE AND NEUTRAL CONDUCTOR INSULATION FOR NO. 6 AWG OR SMALLER. PROVIDE COLORED INSULATION OR COLORED MARKING TAPE FOR PHASE AND NEUTRAL CONDUCTORS FOR NO. 4 AWG AND LARGER. INSULATED GROUND CONDUCTORS SHALL HAVE GREEN COLORED INSULATION FOR ALL CONDUCTOR AWG AND/OR KCMIL. STANDARD COLORS FOR POWER WIRING AND BRANCH CIRCUITS SHALL BE AS FOLLOWS:

120/240 VAC, 1 PHASE, 3 WIRE  
 PHASE A BLACK  
 PHASE B RED  
 NEUTRAL WHITE  
 GROUND GREEN

DATE	REVISION	BY

KEWANEЕ MUNICIPAL AIRPORT  
 KEWANEЕ, HENRY COUNTY, ILLINOIS

ILL. PROJ.: E21-3533  
 A.I.P. PROJ.: 3-17-0058-B10

REV. Project No.	810-08TXD-0800	LAYOUT	KNL	08/25/05
File Name	E-001.DWG	DRAWN	MV	09/23/05
Scale	NONE	REVIEWED	LDP	01/17/06
Date	04/22/05			

Hanson Professional Services Inc.  
 3725 Du Sable Road  
 Indianapolis, Indiana 46214  
 Offices Nationwide

OVERLAY TXY & APRON  
 CONSTRUCT VAULT  
 ELECTRICAL LEGEND  
 AND ABBREVIATIONS

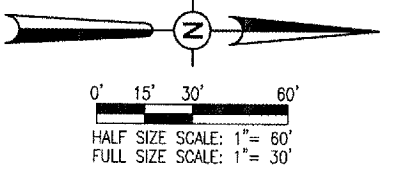
- LEGEND**
- [Solid Line] EXISTING PAVEMENT
  - [Hatched Area] EXISTING BUILDINGS
  - [Dashed Line] PROPOSED IMPROVEMENTS
  - [Dashed Line] EXISTING ELECTRICAL CABLES
  - [Double Line] EXISTING ELECTRICAL DUCT
  - [Line with G] EXISTING GAS LINE
  - [Line with W] EXISTING WATER LINE
  - [Line with X] EXISTING FENCE
  - [Line with T] EXISTING TELEPHONE LINE
  - [Line with UD] EXISTING UNDERDRAIN
  - [Line with SS] EXISTING SANITARY SEWER
  - [Line with E] EXISTING ELECTRIC UTILITY LINE
  - [Square with ET] EXISTING ELECTRICAL TRANSFORMER
  - [Square with X] EXISTING ELECTRICAL PEDESTAL
  - [Square with DM] EXISTING DUCT MARKERS
  - [Square with CM] EXISTING CABLE MARKERS
  - [Circle with ⊕] EXISTING ROTATING BEACON
  - [Square with HH] EXISTING ELECTRICAL HANDHOLE
  - [Circle with O] EXISTING STAKE MOUNTED TAXIWAY LIGHT
  - [Square with X] EXISTING BASE MOUNTED TAXIWAY LIGHT
  - [Square with W] EXISTING WIND CONE
  - [Circle with T] EXISTING WIND TEE
  - [Square with I] EXISTING INLET

AIRPORT ELECTRICAL VAULT TO BE REMOVED & REPLACED WITH A NEW VAULT AT THE SOUTH SIDE OF T-HANGAR A

3 #3/0 (120/240 VAC FEEDER TO VAULT)  
 6-1/C #8, 5000 V (HOME RUN CABLES FOR RUNWAY 1-19, RUNWAY 9-27, & TAXIWAYS)  
 2/C #8 USE (BEACON CIRCUIT)  
 2/C #8 USE (WIND-T CIRCUIT)  
 2/C #4 USE (RUNWAY 9 PLASI CIRCUIT)  
 2/C #4 USE (RUNWAY 27 PLASI CIRCUIT)  
 3 SETS 9/C #12 CONTROL CABLE (L-821 PANEL) IN 4-4" GRSC.  
 CONDUIT EXTENDS FROM VAULT TO HANDHOLE #1  
 WATER LINE, GAS & TELEPHONE ARE ALSO LOCATED IN THIS AREA.

THE LOCATION, SIZE AND TYPE OF MATERIAL OF EXISTING UNDERGROUND UTILITIES INDICATED ON THE PLANS IS NOT REPRESENTED AS BEING ACCURATE, SUFFICIENT OR COMPLETE. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE THE ACTUAL LOCATION OF ALL SUCH FACILITIES, INCLUDING SERVICE CONNECTIONS TO UNDERGROUND UTILITIES. PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL NOTIFY THE UTILITY COMPANIES OF HIS OPERATIONAL PLANS AND SHALL OBTAIN FROM THE RESPECTIVE UTILITY COMPANIES DETAILED INFORMATION AND ASSISTANCE RELATIVE TO THE LOCATION OF THEIR FACILITIES AND THE WORKING SCHEDULE OF THE COMPANIES FOR REMOVAL OR ADJUSTMENT WHERE REQUIRED. IN THE EVENT AN UNEXPECTED UTILITY INTERFERENCE IS ENCOUNTERED DURING CONSTRUCTION, THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE UTILITY COMPANY OF JURISDICTION. THE ENGINEER SHALL ALSO BE IMMEDIATELY NOTIFIED. ANY SUCH MAINS AND SERVICES SHALL BE RESTORED TO SERVICE AT ONCE AND PAID FOR BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE CONTRACT.

CALL J.U.L.I.E. FOR UTILITY INFORMATION AT 1-800-892-0123.



DATE	REVISION	BY

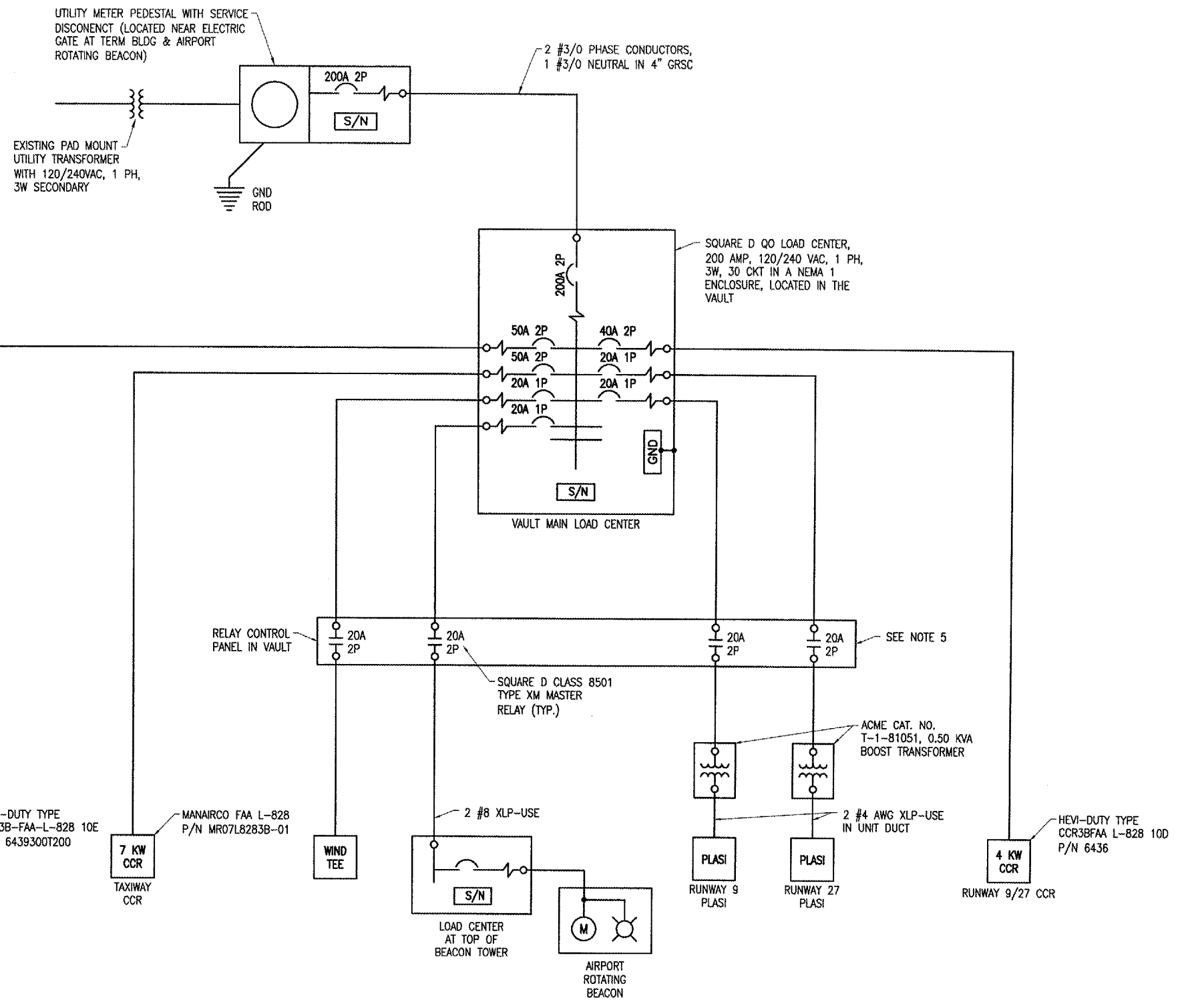
**Kewanee Municipal Airport**  
**Kewanee, Henry County, Illinois**  
 A.I.P. PROJ.: 3-17-0059-B10  
 I.L. PROJ.: EZI-3533

FILE PROJECT NO.	DATE	BY	REVIEWED
810-061XXD_0800	08/15/05	R.A.W.	LDP
R-10151.DWG	08/15/05	B.A.K.	LDP
Scale: 1"=30'	01/17/06		

**HANSON**  
 Hanson Professional Services Inc.  
 3125 Dandy Trail, Suite 100  
 Indianapolis, Indiana 46214  
 Offices Nationwide

**OVERLAY TXY & APRON  
 CONSTRUCT VAULT**  
 EXISTING  
 VAULT SITE  
 PLAN

JAN 18, 2006 8:21 AM DMV  
 I:\AIRPORTS\KEWANEE\810-061XXD\AIRPORT\SHEETS\R-10151.DWG - Layout1



- NOTES
1. ALL VAULT WORK AND/OR POWER OUTAGES SHALL BE COORDINATED WITH THE AIRPORT MANAGER.
  2. CONTRACTOR SHALL FIELD VERIFY EXISTING CONDITIONS TO CONFIRM POWER & CONTROL CIRCUITS.
  3. EXISTING AIRFIELD CIRCUITS SHALL BE LOCATED, IDENTIFIED, DISCONNECTED, REROUTED & RECONNECTED TO THE NEW VAULT AS DETAILED HEREIN. ALL EXISTING AIRFIELD LIGHTING SYSTEMS SHALL BE OPERABLE DURING NIGHTFALL, CONTRACTOR SHALL PROVIDE ALL TEMPORARY WORK AS NECESSARY TO MAINTAIN OPERATION OF THE AIRFIELD LIGHTING SYSTEMS AT NIGHTFALL. CONTRACTOR SHALL COORDINATE TRANSFER OF EXISTING AIRFIELD CIRCUITS TO MINIMIZE DOWN TIME.
  4. CCR DENOTES CONSTANT CURRENT REGULATOR.
  5. PLASI'S ARE WIRED FOR CONTINUOUS OPERATION 24 HOURS A DAY. RELAY CONTACTS MIGHT BE BYPASSED. FIELD VERIFY AS NECESSARY.

DATE	REVISION	BY

Kewanee Municipal Airport  
 Kewanee, Henry County, Illinois  
 ILL. PROJ.: E2I-3533 A.I.P. PROJ.: 3-17-00568-B10

IEL Project No. 810-067X1D-0800 Estimate E-601.DWG Scale NO SCALE Date 04/22/05	LAYOUT KNL 08/25/05 DRAWN MW 08/25/05 REVIEWED LDP 01/17/06
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OVERLAY TXY & APRON  
 CONSTRUCT VAULT  
 EXISTING VAULT  
 ELECTRICAL ONE-LINE  
 DIAGRAM

EXISTING VAULT ELECTRICAL ONE-LINE DIAGRAM

JAN 18, 2006 8:22 AM DWG  
 I:\AIRPORTS\KEWANEE\810-067X1D\AIRPORT\SHETS\E-601.DWG - E-4

FOR CONTINUATION OF HOMERUN CABLES SEE SHEET NO. 25.

RUNWAY 1-19 LTG HOMERUN CABLES

RUNWAY 9-27 LTG HOMERUN CABLES FOR CONTINUATION SEE SHEET NO. 26

PROPOSED 2-4" DIRECTIONAL BORE DUCT, 100 L.F. (AR110014). LEAVE ONE DUCT EMPTY FOR SPARE.

NOTE: ABANDONMENT AND/OR REMOVAL OF EXISTING CABLES SHALL BE INCIDENTAL TO THE RESPECTIVE REPLACEMENT CABLE PAY ITEM.

FOR CONTINUATION OF TAXIWAY LIGHTING CABLES SEE SHEET NO. 26.

BY	
REVISION	
DATE	

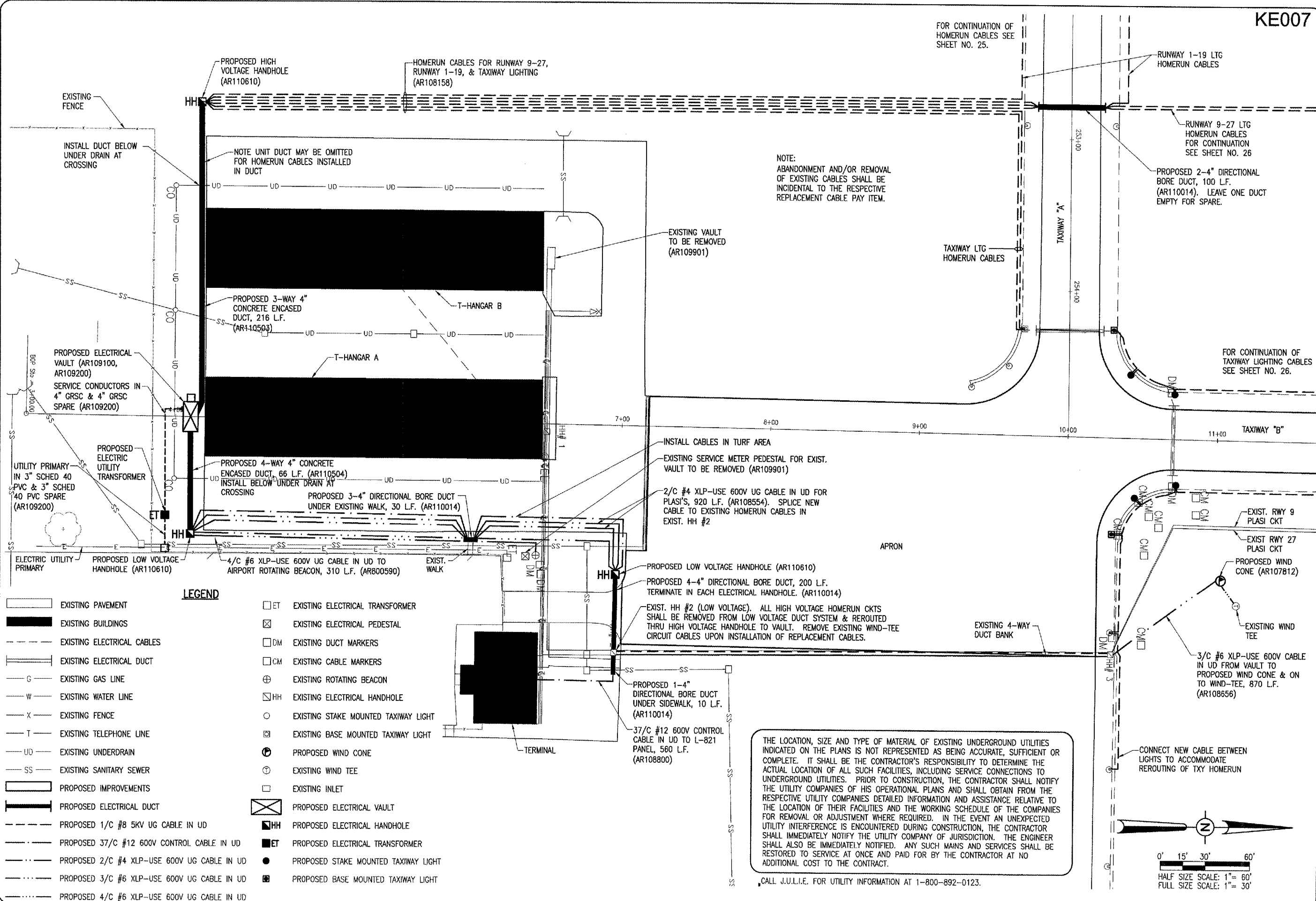
KEWANEE MUNICIPAL AIRPORT  
KEWANEE, HENRY COUNTY, ILLINOIS

IL PROJ.: EZI-3533 A.I.P. PROJ.: 3-17-00568-B10

Project No.	810-06TXD 0800
Revision	R-102SIT.DWG
Scale	1"=30'
Date	08/15/05
LAYOUT	RAW 08/15/05
DRAWN	B.A.K. 08/15/05
REVIEWED	L.D.P. 01/17/06

Hanson Professional Services Inc.  
3725 Dancy Trail, Suite 100  
Indianapolis, Indiana 46214  
Offices Nationwide

OVERLAY TXY & APRON  
CONSTRUCT VAULT  
PROPOSED  
VAULT SITE  
PLAN

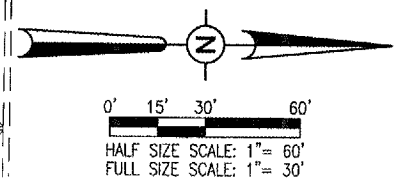


LEGEND

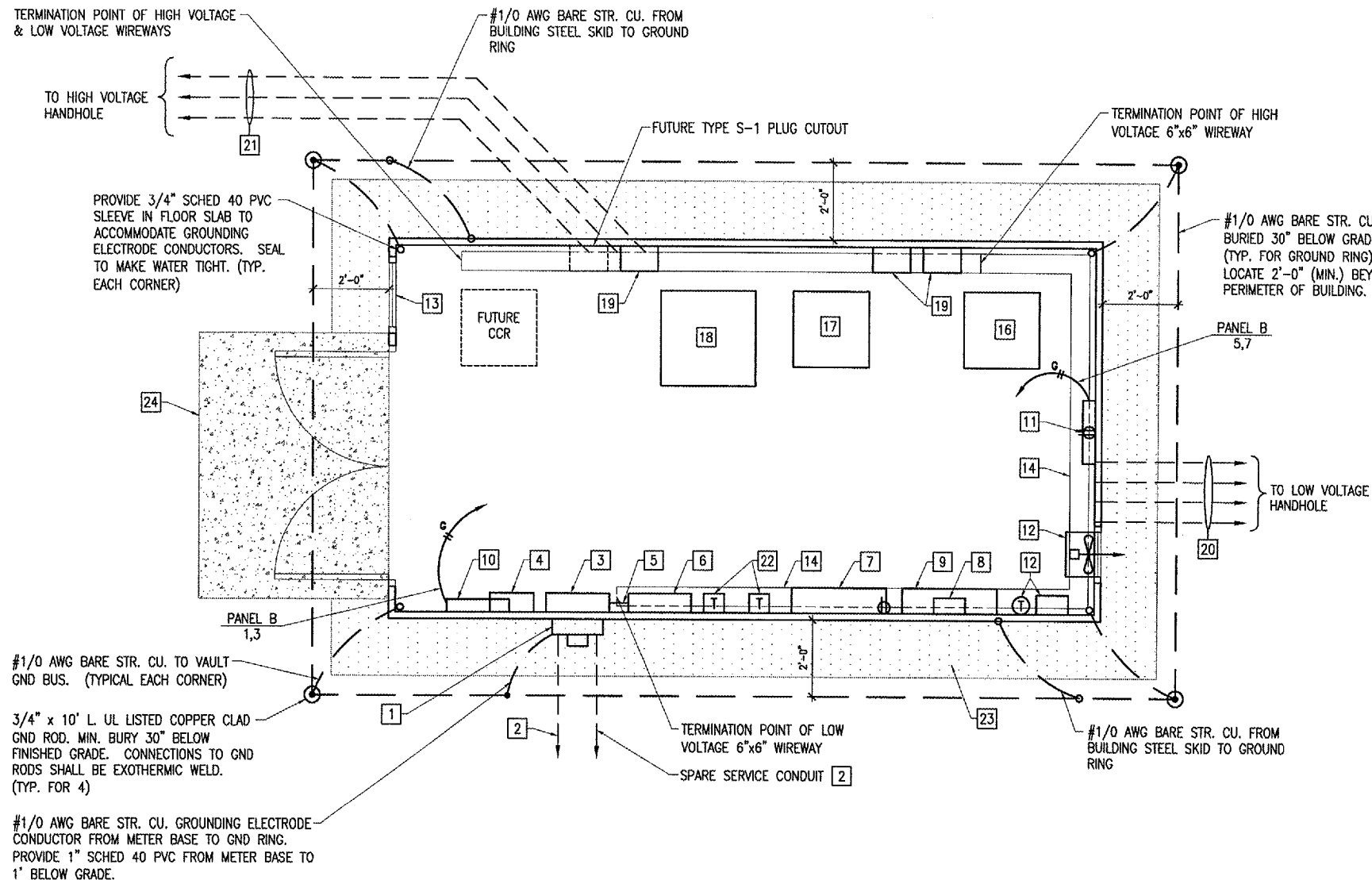
- EXISTING PAVEMENT
- EXISTING BUILDINGS
- EXISTING ELECTRICAL CABLES
- EXISTING ELECTRICAL DUCT
- EXISTING GAS LINE
- EXISTING WATER LINE
- EXISTING FENCE
- EXISTING TELEPHONE LINE
- EXISTING UNDERDRAIN
- EXISTING SANITARY SEWER
- PROPOSED IMPROVEMENTS
- PROPOSED ELECTRICAL DUCT
- PROPOSED 1/C #8 5KV UG CABLE IN UD
- PROPOSED 2/C #4 XLP-USE 600V UG CABLE IN UD
- PROPOSED 3/C #6 XLP-USE 600V UG CABLE IN UD
- PROPOSED 4/C #6 XLP-USE 600V UG CABLE IN UD
- EXISTING ELECTRICAL TRANSFORMER
- EXISTING ELECTRICAL PEDESTAL
- EXISTING DUCT MARKERS
- EXISTING CABLE MARKERS
- EXISTING ROTATING BEACON
- EXISTING ELECTRICAL HANDHOLE
- EXISTING STAKE MOUNTED TAXIWAY LIGHT
- EXISTING BASE MOUNTED TAXIWAY LIGHT
- EXISTING INLET
- PROPOSED ELECTRICAL VAULT
- PROPOSED ELECTRICAL HANDHOLE
- PROPOSED ELECTRICAL TRANSFORMER
- PROPOSED STAKE MOUNTED TAXIWAY LIGHT
- PROPOSED BASE MOUNTED TAXIWAY LIGHT

THE LOCATION, SIZE AND TYPE OF MATERIAL OF EXISTING UNDERGROUND UTILITIES INDICATED ON THE PLANS IS NOT REPRESENTED AS BEING ACCURATE, SUFFICIENT OR COMPLETE. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE THE ACTUAL LOCATION OF ALL SUCH FACILITIES, INCLUDING SERVICE CONNECTIONS TO UNDERGROUND UTILITIES. PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL NOTIFY THE UTILITY COMPANIES OF HIS OPERATIONAL PLANS AND SHALL OBTAIN FROM THE RESPECTIVE UTILITY COMPANIES DETAILED INFORMATION AND ASSISTANCE RELATIVE TO THE LOCATION OF THEIR FACILITIES AND THE WORKING SCHEDULE OF THE COMPANIES FOR REMOVAL OR ADJUSTMENT WHERE REQUIRED. IN THE EVENT AN UNEXPECTED UTILITY INTERFERENCE IS ENCOUNTERED DURING CONSTRUCTION, THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE UTILITY COMPANY OF JURISDICTION. THE ENGINEER SHALL ALSO BE IMMEDIATELY NOTIFIED. ANY SUCH MAINS AND SERVICES SHALL BE RESTORED TO SERVICE AT ONCE AND PAID FOR BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE CONTRACT.

CALL J.U.L.I.E. FOR UTILITY INFORMATION AT 1-800-892-0123.



JAN 18, 2006 8:33 AM DMV  
I:\AIRPORTS\KEWANEE\810-06TXD\AIRPORT\_SHEETS\R-102SIT.DWG - PROPOSED VAULT SITE



**Vault Electrical Equipment Plan**  
 SCALE 1/2"=1'-0"  
 1 0 2 4 FEET

**KEYED NOTES**

- 1 ELECTRIC UTILITY METER WITH SUPPORT HARDWARE PER SERVING ELECTRIC UTILITY COMPANY REQUIREMENTS.
- 2 UTILITY SERVICE CONDUCTORS (BY UTILITY) IN 4" GRSC (BY CONTRACTOR) FROM UTILITY TRANSFORMER TO METER BASE. INCLUDE SPARE 4" GRSC PER UTILITY CO. REQUIREMENTS. CONTRACTOR SHALL FURNISH & INSTALL SERVICE CONDUCTORS & CONDUIT FROM METER BASE TO SERVICE PANEL. SEE "NEW VAULT ELECTRICAL ONE LINE DIAGRAM".
- 3 SERVICE PANEL A, SEE PANEL A SCHEDULE.
- 4 AC SURGE PROTECTOR/TVSS, SEE "NEW VAULT ELECTRICAL ONE LINE DIAGRAM."
- 5 2 #1/0 THWN, 1 #1/0 THWN NEUTRAL, 1 #4 GND IN 2" GRSC FROM SERVICE PANEL A TO PANEL B.
- 6 PANEL B, SEE PANEL B SCHEDULE.
- 7 LIGHTING CONTACTOR PANEL. SEE AIRFIELD LIGHTING WIRING SCHEMATIC AND LIGHTING CONTACTOR PANEL DETAIL.
- 8 L-854 RADIO CONTROL UNIT. EXTEND RADIO ANTENNA CABLE AND MOUNT ANTENNA ON THE ROOF FOR PROPER OPERATION.
- 9 RADIO RELAY INTERFACE PANEL WITH PHOTOCELL BYPASS SWITCH FOR RUNWAY 1-19 CCR, TAXIWAY CCR, AND RUNWAY 18-36 CCR. SEE AIRFIELD LIGHTING WIRING SCHEMATIC FOR WIRING REQUIREMENTS. MOUNT PHOTOCELL ON ROOF. FIELD VERIFY LOCATION FOR PROPER CONTROL AND OPERATION.
- 10 ELECTRIC WALL HEATER EH-1, 3000 WATT, 240 VAC, 1 PHASE, SUITABLE FOR SURFACE MOUNTING WITH INTEGRAL THERMOSTAT, Q-MARK MODEL CWH3407, OR APPROVED EQUAL. BOTTOM OF HEATER SHALL BE 3" ABOVE THE UPPER ELECTRICAL WIREWAY.
- 11 ELECTRIC WALL HEATER EH-2, 2000 WATT, 240 VAC, 1 PHASE, SUITABLE FOR SURFACE MOUNTING WITH INTEGRAL THERMOSTAT, Q-MARK MODEL CWH3404, OR APPROVED EQUAL. BOTTOM OF HEATER SHALL BE 3" ABOVE THE UPPER ELECTRICAL WIREWAY.
- 12 EXHAUST FAN EF-1, 2000 CFM AT .25" STATIC PRESSURE WITH 1/2 HP, 120 VAC MOTOR, COOK MODEL 20S10D, OR APPROVED EQUAL. INCLUDE WALL HOUSING WITH GUARD, GRAVITY BACK DRAFT DAMPER, ALUMINUM WEATHER-HOOD PAINTED TO MATCH BUILDING EXTERIOR, STAINLESS STEEL INSECT SCREEN, AND FRACTIONAL HP ELECTRICAL DISCONNECT. INSTALL FAN AS HIGH AS POSSIBLE. PROVIDE 120 VAC THERMOSTAT WITH CONTACTOR AND AUTO-OFF-MANUAL CONTROL SWITCH AT 48" AFF. MOUNT THERMOSTAT ON 2" THICK INSULATED BASE. SEE EXHAUST FAN CONTROL SCHEMATIC FOR WIRING REQUIREMENTS.
- 13 INTAKE LOUVER L-1, 24" WIDE BY 48" HIGH INTAKE LOUVER WITH STAINLESS STEEL INSECT SCREEN, 120 VAC MOTORIZED DAMPER WITH LIMIT SWITCH, KYNAR FINISH MATCHING BUILDING EXTERIOR, RUSKIN MODEL ELF375DX, OR APPROVED EQUAL. SEE EXHAUST FAN CONTROL SCHEMATIC FOR WIRING REQUIREMENTS.
- 14 6" BY 6" LOW VOLTAGE WIREWAY. LABEL "LOW VOLTAGE" EVERY 4 FEET. INSTALL ABOVE HIGH VOLTAGE WIREWAY.
- 15 6" BY 6" HIGH VOLTAGE WIREWAY. LABEL "HIGH VOLTAGE" EVERY 4 FEET. INSTALL BELOW LOW VOLTAGE WIREWAY.
- 16 RUNWAY 1-19 CONSTANT CURRENT REGULATOR. SEE GENERAL NOTE 1.
- 17 RUNWAY 9-27 CONSTANT CURRENT REGULATOR. SEE GENERAL NOTE 1.
- 18 TAXIWAY CONSTANT CURRENT REGULATOR. SEE GENERAL NOTE 1.
- 19 SERIES PLUG CUTOOUT TYPE S-1 WITH ENCLOSURE. SEE GENERAL NOTES 1 AND 2.
- 20 4-4" GRSC FROM LOW VOLTAGE WIREWAY TO LOW VOLTAGE HANDHOLE.
- 21 3-4" GRSC FROM HIGH VOLTAGE WIREWAY TO HIGH VOLTAGE HANDHOLE.
- 22 BOOST TRANSFORMERS. SEE ELEVATION VIEW.
- 23 VEGETATION BARRIER CONSISTING OF A MIN. 3" PEA GRAVEL SURFACE OVER FILTER OR LANDSCAPING FABRIC. PROPOSED SURFACE TREATMENT WILL COVER ENTIRE AREA BENEATH VAULT STRUCTURE AS WELL AS 18" AROUND THE PERIMETER OF THE BUILDING EDGE. THE STONE AND FABRIC AS WELL AS ANY EQUIPMENT AND LABOR REQUIRED TO COMPLETE THIS TASK WILL BE CONSIDERED INCIDENTAL TO THE INSTALLATION OF THE PROPOSED ELECTRICAL VAULT AND NO ADDITIONAL COMPENSATION WILL BE ALLOWED.
- 24 ENTRANCE PAD CONSTRUCTED OF 6" CONCRETE SLAB W/6X6-W5XW5 WELDED WIRE FABRIC ON A COMPACTED SUBGRADE. MINIMUM DIMENSIONS OF PAD WILL BE 7'Wx5'Dx6"H, SLOPED AT A MIN. OF 0.5"/FT AWAY FROM THE VAULT ENTRANCE. PCC USED TO CONSTRUCT THE PAD WILL CONFORM TO ITEM 610. ALL MATERIALS, LABOR AND EQUIPMENT USED TO CONSTRUCT THE PAD INCLUDING ANY GRADING REQUIRED WILL BE CONSIDERED INCIDENTAL TO THE CONSTRUCTION OF THE PROPOSED ELECTRICAL VAULT AND NO ADDITIONAL COMPENSATION WILL BE ALLOWED.

**GENERAL NOTES**

1. SEE "NEW VAULT ELECTRICAL ONE LINE DIAGRAM" FOR LOW VOLTAGE INPUT POWER WIRING REQUIREMENTS TO CCR'S (CONSTANT CURRENT REGULATORS). SEE "HIGH VOLTAGE WIRING SCHEMATIC" FOR CCR OUTPUT WIRING REQUIREMENTS. SEE "AIRFIELD LIGHTING WIRING SCHEMATIC" FOR CCR CONTROL WIRING REQUIREMENTS. PROVIDE 5 FEET MINIMUM CLEAR WORKING SPACE IN FRONT OF EACH CCR AND EACH SERIES PLUG CUTOOUT.
2. CONSTANT CURRENT REGULATORS AND THEIR RESPECTIVE SERIES PLUG CUTOOUTS SHALL BE CLEARLY LABELED TO IDENTIFY THE RESPECTIVE REGULATOR DESIGNATION, RUNWAY OR TAXIWAY SERVED, POWER SOURCE OR CIRCUIT, AND VOLTAGE SYSTEM.
3. SEE ELEVATION VIEWS FOR ADDITIONAL INFORMATION ON PROPOSED EQUIPMENT LAYOUTS.
4. COORDINATE CONDUIT & SLEEVE ENTRANCES THROUGH FLOOR SLAB AND WALLS.

DATE	REVISION	BY

**Kewanee Municipal Airport**  
 Kewanee, Henry County, Illinois

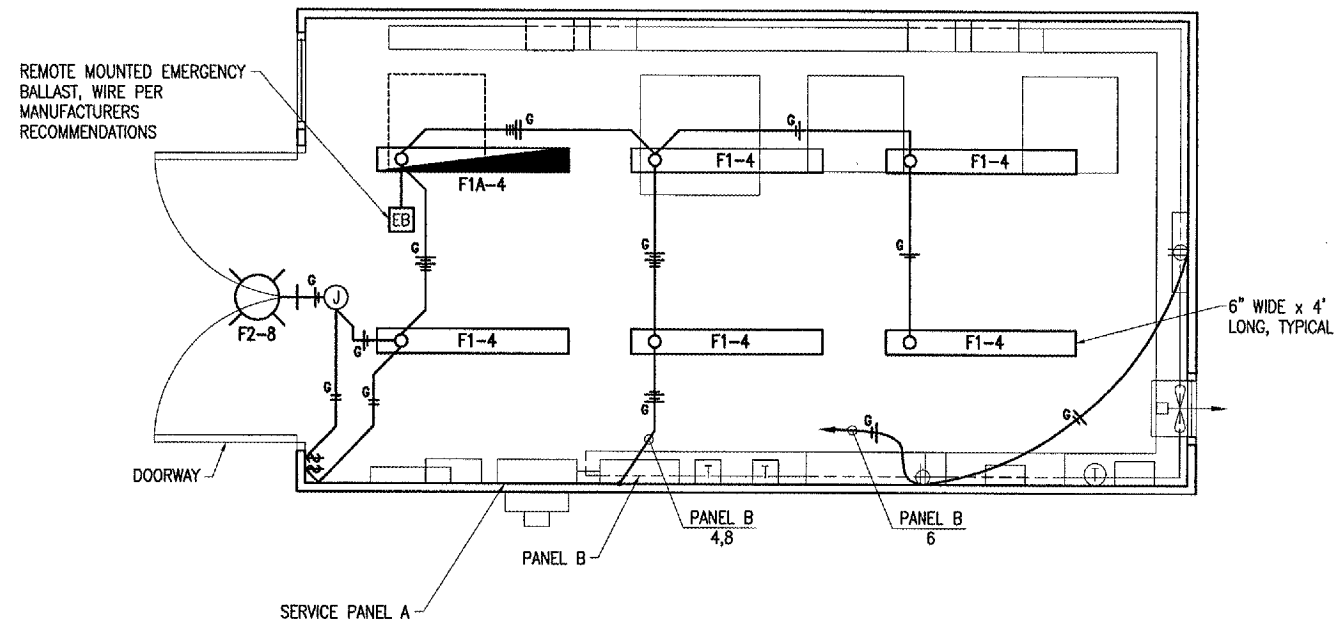
A.I.P. PROJ.: 3-17-0058-810  
 I.L. PROJ.: E2-3533

ILL. Project No. 810-067X7D 0800 Drawing No. EP-101.DWG Scale 1/2"=1'-0" Date xx/xx/xx	LAYOUT DRAWN KNE REVIEWED LDP	Date 9/13/05 Date 9/26/05 Date 01/17/06
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**OVERLAY TXY & APRON CONSTRUCT VAULT**  
 PROPOSED AIRPORT ELECTRICAL VAULT EQUIPMENT PLAN

JAN 18, 2006 11:02 AM DMV  
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**VAULT LIGHTING & RECEPTACLE PLAN**  
 SCALE 1/2"=1'-0"  
 1 0 2 4 FEET

LIGHTING FIXTURE SCHEDULE						
FIXT. TYPE	DESCRIPTION	MANUFACTURER & CATALOG NO.	LAMPS/WATTS	VOLTS	MOUNTING	REMARKS
F1	4 FT. WET LOCATION LISTED ENCLOSED AND GASKETED INDUSTRIAL FLUORESCENT LIGHT FIXTURE, IMPACT RESISTANT, UV RESISTANT REINFORCED POLYESTER FIBERGLASS HOUSING, HIGH IMPACT ACRYLIC DIFFUSER, RAPID START COLD WEATHER 0 DEG. F. ELECTRONIC BALLAST WITH LESS THAN OR EQUAL TO 10% THD.	LITHONIA: DMW-2-32-AR-120-CW-GEB10RS-WLF	2-32W T8 4100K 59 TOTAL INPUT WATTS	120	SURFACE TO HARD CEILING	PROVIDE WET LOCATION FITTINGS INSTALLED IN TOP OF FIXTURE.
F1A	SAME AS F1 EXCEPT PROVIDE AN EMERGENCY BALLAST CAPABLE OF OPERATING 2 LAMPS FOR 90 MINUTES AT 1100-1400 TOTAL LUMENS, BODINE #850ST. NOTE BALLAST WILL HAVE TO BE REMOTE MOUNTED NEAR FIXTURE AS INDICATED ON THE PLANS.	LITHONIA: DMW-2-32-AR-120-CW-GEB10RS-WLF	2-32W T8 4100K 59 TOTAL INPUT WATTS	120	SURFACE TO HARD CEILING	PROVIDE WET LOCATION FITTINGS INSTALLED IN TOP OF FIXTURE.
F2	COMPACT FLUORESCENT WALL-PAK, ONE PIECE INJECTION MOLDED UV STABILIZED POLYCARBONATE HOUSING, HIGH PERFORMANCE SPECULAR ANODIZED SEGMENTED REFLECTOR, ONE PIECE HIGH TEMPERATURE SILICONE GASKET, MEDIUM BRONZE FINISH, HIGH POWERFACTOR ELECTRONIC BALLAST WITH LESS THAN OR EQUAL TO 10% THD, UL LISTED FOR WET LOCATIONS, FUSED.	LITHONIA: TWA-42TRT-120-SF-CR-DMB-LPI	1-42W TRT 4100K 47 TOTAL INPUT WATTS	120	SURFACE TO WALL ABOVE EXTERIOR DOOR APPROXIMATELY 4 INCHES ABOVE TOP OF DOOR FRAME.	CONNECT TO WALL SWITCH LOCATED ON THE INSIDE OF THE BUILDING.

**NOTE**  
 15 AMP & 20 AMP BRANCH CIRCUITS FOR LIGHTING & RECEPTACLES SHALL USE #12 AWG THWN (MIN.).

DATE	REVISION	BY

**KEWANEE MUNICIPAL AIRPORT**  
 KEWANEE, HENRY COUNTY, ILLINOIS  
 I.L. PROJ.: E21-3533 A.I.P. PROJ.: 3-17-0058-810

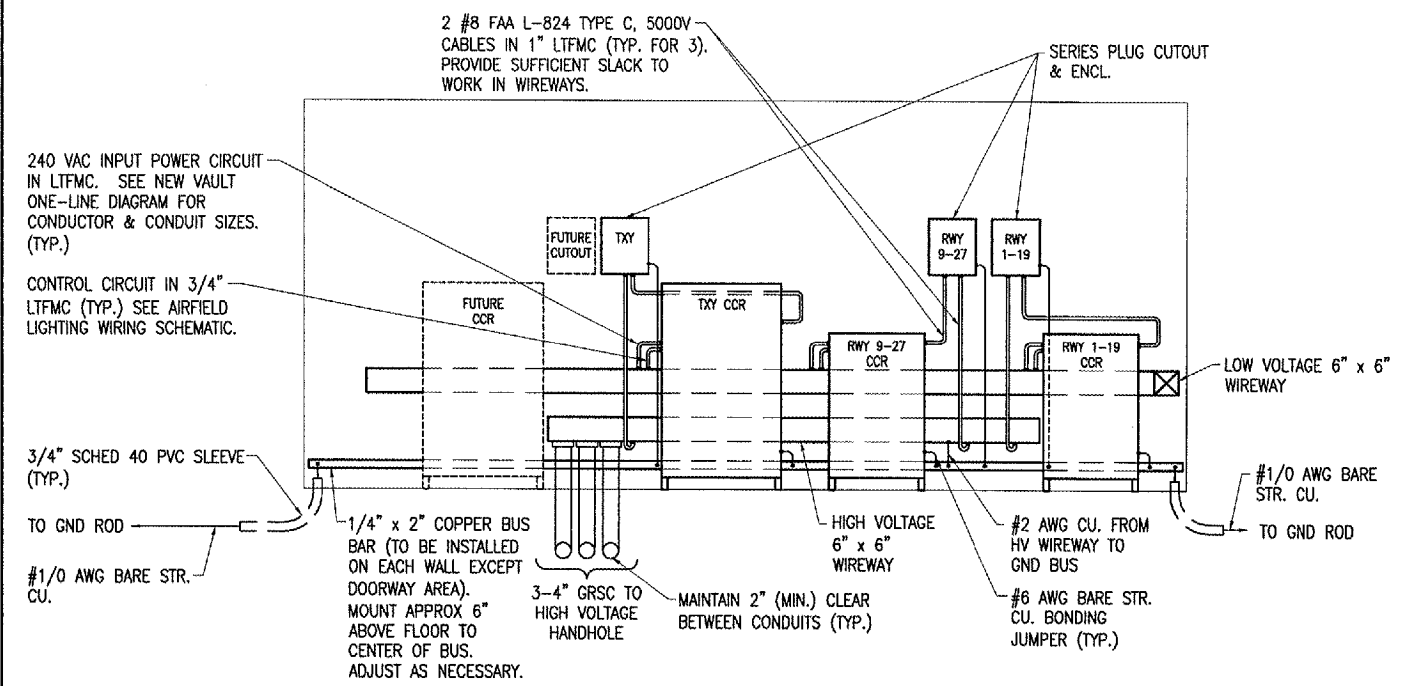
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File No.	EL-101.DWG
Scale	1/2"=1'-0"
Date	9/13/02
LAYOUT	KNL 08/25/05
DRAWN	MV 09/26/05
REVIEWED	LDP 01/17/06



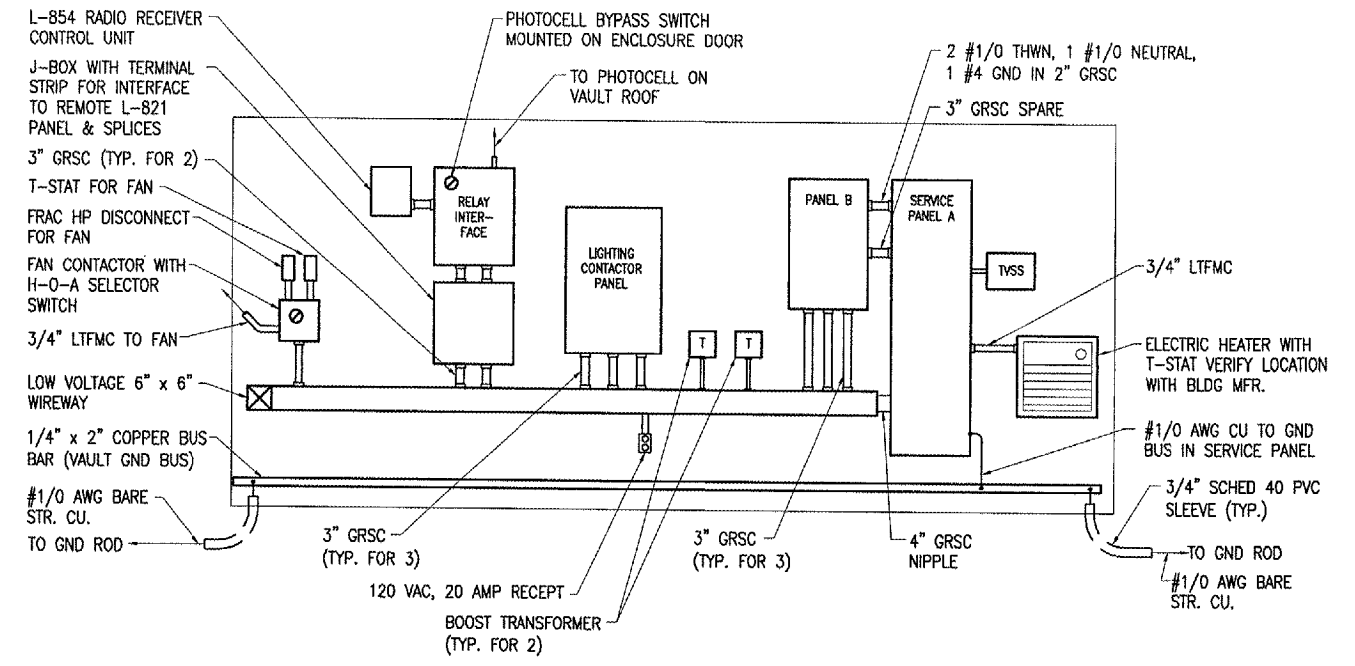
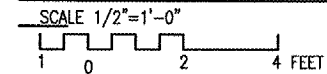
**OVERLAY TXY & APRON CONSTRUCT VAULT**  
 VAULT LIGHTING AND RECEPTACLE PLAN

JAN 18, 2005 9:07 AM DMV  
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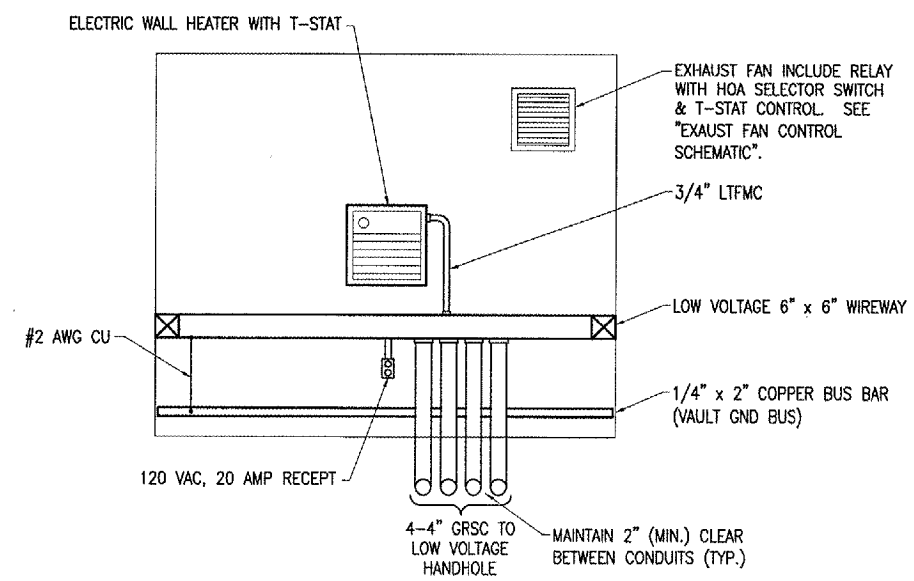
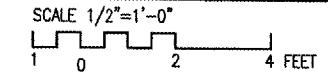




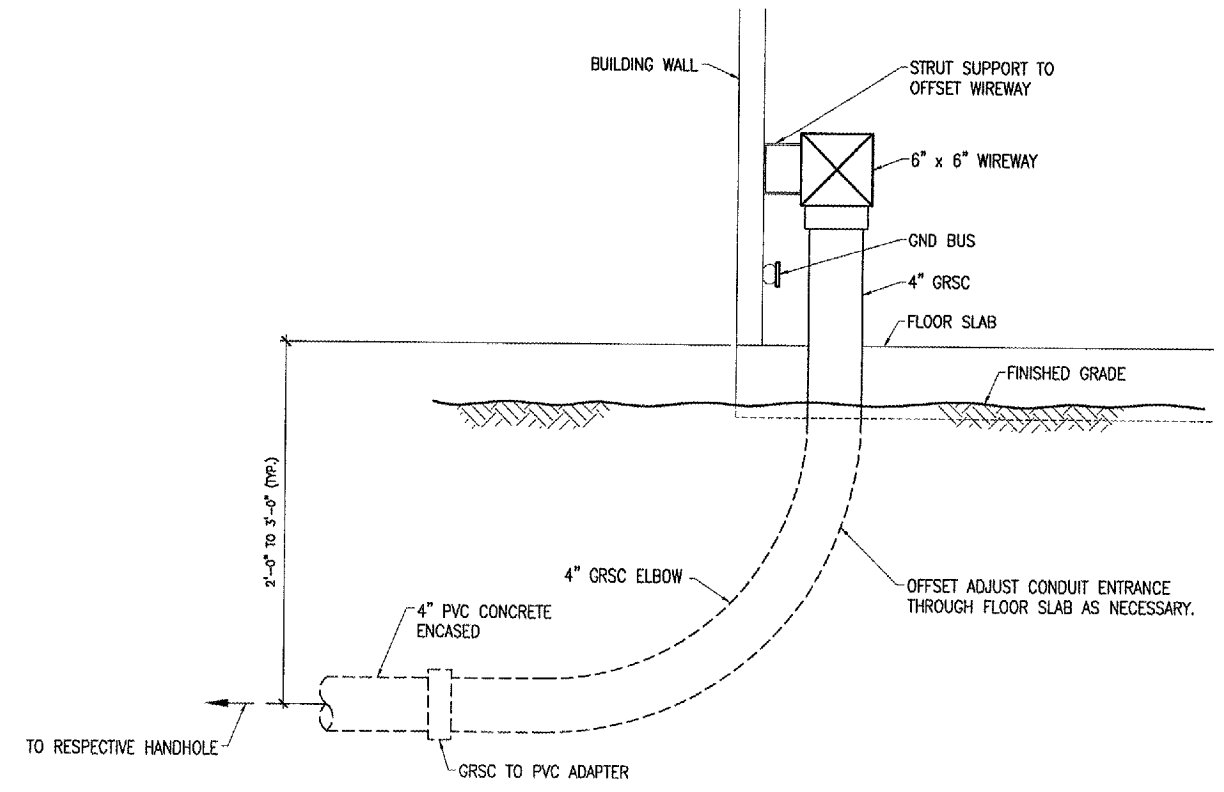
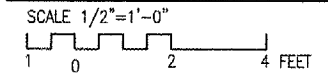
VAULT NORTH WALL ELEVATION



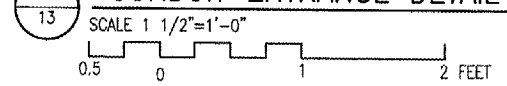
VAULT SOUTH WALL ELEVATION



VAULT EAST WALL ELEVATION



CONDUIT ENTRANCE DETAIL



JAN 18, 2006 9:08 AM DWG  
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BY	
REVISION	
DATE	

KEWANEEMUNICIPAL AIRPORT  
 KEWANEEMUNICIPAL AIRPORT, ILLINOIS

A.I.P. PROJ.: 3-17-0059-B10  
 I.L. PROJ.: E21-3533

REL. Project. No.	810-061XYD_0800
Revision	E-201.DWG
Scale	1/2"=1'-0"
Date	04/22/05
LAYOUT	KNL 09/26/05
DRAWN	MW 09/26/05
REVIEWED	LDP 01/17/06



OVERLAY TXY & APRON  
 CONSTRUCT VAULT  
 PROPOSED  
 AIRPORT ELECTRICAL VAULT  
 WALL ELEVATIONS

PRIMARY CONDUCTORS BY UTILITY INSTALLED IN 3" SCHED 40 PVC DUCT BY CONTRACTOR PER THE SERVING ELECTRIC UTILITY CO. REQUIREMENTS.

UTILITY TRANSFORMER WITH 120/240 VAC, 1PH, 3W SECONDARY

4" GRSC (BY CONTRACTOR) INCLUDE 4" GRSC SPARE BETWEEN TRANSFORMER & METER BASE. ELECTRIC UTILITY WILL FURNISH & INSTALL SERVICE CONDUCTORS FROM TRANSFORMER TO METER BASE.

UTILITY METER BASE PER SERVING ELECTRIC UTILITY CO. REQUIREMENTS LOCATE AT VAULT BLDG EXTERIOR

2-600 MCM XHHW, 1-600 MCM NEUTRAL, 1 #1/0 GND IN 4" GRSC

#1/0 BARE STRANDED COPPER GROUNDING ELECTRODE CONDUCTOR IN 1" SCHED 40 PVC FROM SERVICE PANEL TO GROUND RING.

#1/0 BARE STR. CU. (TYP.)

GROUND RING SHALL BE INSTALLED 2'-0" BEYOND THE PERIMETER OF THE VAULT BLDG. DIMENSIONS SHOWN ARE FOR A NOMINAL 10'W x 20'L BLDG.

10'L x 3/4" DIA UL LISTED COPPER CLAD GND ROD TYP. FOR 4. GND RING SHALL BE BURIED 30" MIN. BELOW FINISHED GRADE. CONNECTIONS TO GND RODS AND GND RING SHALL BE EXOTHERMIC WELD, CADWELD OR THERMOWELD.

2 #1/0 THWN, 1 #1/0 NEUTRAL, 1 #4 GND IN 2" GRSC

2 #10 THWN, 1 #10 GND IN LOW VOLTAGE WIREWAY & CONDUIT

1 #10 THWN, 1 #10 NEUTRAL, 1 #10 GND IN LOW VOLTAGE WIREWAY & CONDUIT. PROVIDE LTFMC AT FINAL CONNECTION TO TRANSFORMER.

1 #10 THWN, 1 #10 NEUTRAL, 1 #10 GND IN LOW VOLTAGE WIREWAY & CONDUIT. PROVIDE LTFMC AT FINAL CONNECTION TO TRANSFORMER.

500 VA, 120 VAC TO 144 VAC BOOST TRANSFORMER SEE SHEET 49 FOR WIRING DETAIL.

500 VA, 120 VAC TO 132 VAC BOOST TRANSFORMER SEE SHEET 49 FOR WIRING DETAIL.

500 VA, 120 VAC TO 132 VAC BOOST TRANSFORMER SEE SHEET 49 FOR WIRING DETAIL.

SPLICE #6 AWG TO #8 AWG IN PANELBOARD ENCLOSURE AS NECESSARY TO FIT CIRCUIT BREAKER TERMINALS

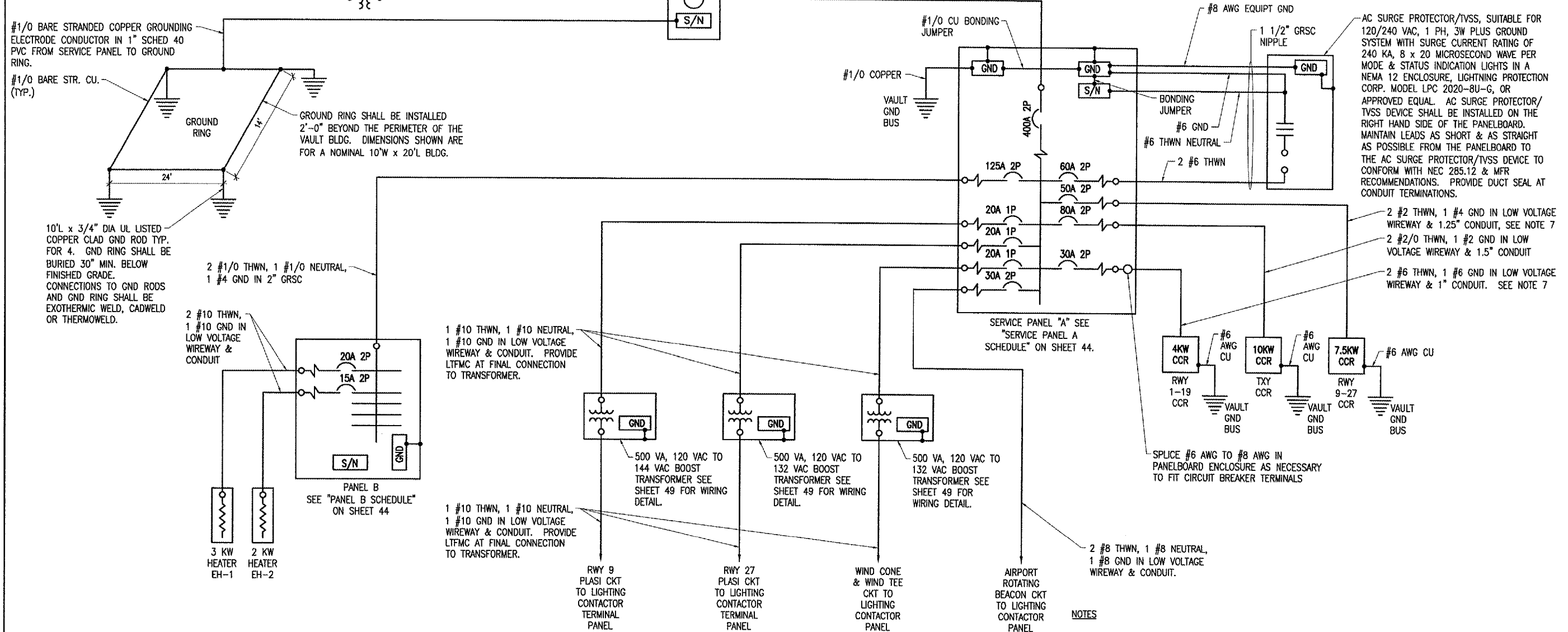
2 #8 THWN, 1 #8 NEUTRAL, 1 #8 GND IN LOW VOLTAGE WIREWAY & CONDUIT.

AC SURGE PROTECTOR/TVSS, SUITABLE FOR 120/240 VAC, 1 PH, 3W PLUS GROUND SYSTEM WITH SURGE CURRENT RATING OF 240 KA, 8 x 20 MICROSECOND WAVE PER MODE & STATUS INDICATION LIGHTS IN A NEMA 12 ENCLOSURE, LIGHTNING PROTECTION CORP. MODEL LPC 2020-8U-G, OR APPROVED EQUAL. AC SURGE PROTECTOR/TVSS DEVICE SHALL BE INSTALLED ON THE RIGHT HAND SIDE OF THE PANELBOARD. MAINTAIN LEADS AS SHORT & AS STRAIGHT AS POSSIBLE FROM THE PANELBOARD TO THE AC SURGE PROTECTOR/TVSS DEVICE TO CONFORM WITH NEC 285.12 & MFR RECOMMENDATIONS. PROVIDE DUCT SEAL AT CONDUIT TERMINATIONS.

2 #2 THWN, 1 #4 GND IN LOW VOLTAGE WIREWAY & 1.25" CONDUIT, SEE NOTE 7

2 #2/0 THWN, 1 #2 GND IN LOW VOLTAGE WIREWAY & 1.5" CONDUIT

2 #6 THWN, 1 #6 GND IN LOW VOLTAGE WIREWAY & 1" CONDUIT. SEE NOTE 7



NOTES

1. ALL VAULT WORK, AIRFIELD WORK, AND/OR POWER OUTAGES SHALL BE COORDINATED WITH THE AIRPORT MANAGER.
2. ALL ELECTRICAL EQUIPMENT SHALL BE INSTALLED IN CONFORMANCE WITH NFPA 70 (NEC MOST CURRENT ISSUE IN FORCE), THE RESPECTIVE EQUIPMENT MANUFACTURER'S DIRECTIONS AND ALL OTHER APPLICABLE LOCAL CODES, LAWS, ORDINANCES AND REQUIREMENTS IN FORCE. ANY INSTALLATIONS WHICH VOID THE U.L. LISTING, ETL LISTING, (OR OTHER THIRD PARTY LISTING) AND/OR THE MANUFACTURER'S WARRANTY OF A DEVICE SHALL NOT BE PERMITTED.
3. ALL EQUIPMENT SHOWN IS NEW UNLESS NOTED OTHERWISE.
4. COORDINATE ELECTRIC SERVICE WORK WITH THE SERVING ELECTRIC UTILITY COMPANY:  
AMEREN IP  
ATTN, MS. KATHY CROWELL  
1824 KNOX HIGHWAY 9  
GALESBURG, IL 61401  
PHONE: 309-852-2963  
FAX: 309-852-2946  
CELL PHONE: 309-368-6684
5. CONTRACTOR SHALL CONFIRM POWER REQUIREMENTS WITH THE ACTUAL NAMEPLATE ON EACH CONSTANT CURRENT REGULATOR AND ADJUST CIRCUIT BREAKER, WIRE SIZES & CONDUIT SIZES TO CONFORM WITH NEC & MANUFACTURER'S RECOMMENDATIONS WHERE APPLICABLE. WIRE SIZES SHOWN ON THE PLANS ARE MINIMUM.
6. SEE PANELBOARD SCHEDULES FOR ADDITIONAL REQUIREMENTS FOR EACH RESPECTIVE PANEL.
7. BRANCH CIRCUITS TO REGULATORS SHALL BE INSTALLED IN THE RESPECTIVE LOW VOLTAGE WIREWAY/DUCT, WITH GRSC AT TRANSITIONS AND UL LISTED LIQUID TIGHT FLEXIBLE METAL CONDUIT AT FINAL CONNECTIONS TO THE REGULATORS. CONDUITS SHALL BE SIZED IN ACCORDANCE WITH NEC.
8. BOND ALL REGULATORS TO THE RESPECTIVE VAULT GROUND BUS WITH A DEDICATED #6 AWG BONDING JUMPER FOR EACH REGULATOR.
9. LTFMC DENOTES LIQUID TIGHT FLEXIBLE METAL CONDUIT UL LISTED, SUNLIGHT RESISTANT, & SUITABLE FOR GROUNDING.

HIGH VOLTAGE & LOW VOLTAGE CIRCUITS SHALL NOT BE INSTALLED IN THE SAME RACEWAY

FURNISH & INSTALL A WEATHERPROOF WARNING LABEL FOR EACH METER SOCKET, PANELBOARD, LOAD CENTER, DISCONNECT & CONTROL PANEL TO WARN PERSONS OF POTENTIAL ELECTRIC ARC FLASH HAZARDS, PER THE REQUIREMENTS OF NEC 110.16 "FLASH PROTECTION".

NEW VAULT ELECTRICAL ONE-LINE DIAGRAM

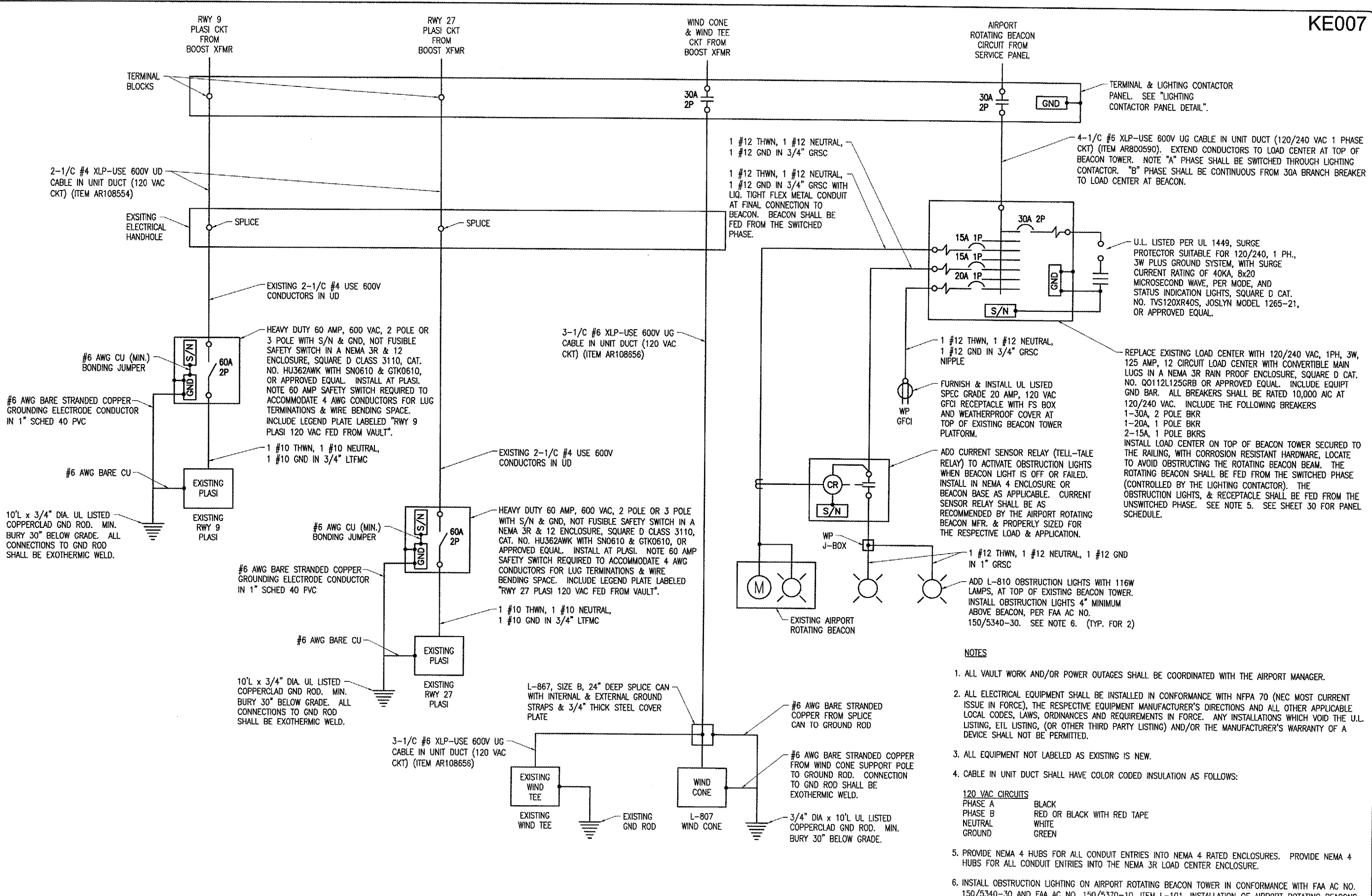
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REVISION	
DATE	

Kewanee Municipal Airport, Illinois  
A.I.P. PROJ.: 3-17-0059-B10  
I.L. PROJ.: E2I-3533

Project No.	810-061X1D-0800
Filename	E-606.DWG
Scale	1"=XX'
Date	04/22/05
LAYOUT	KNL 09/23/05
DRAWN	MV 09/23/05
REVIEWED	LDP 01/17/06



OVERLAY TXY & APRON CONSTRUCT VAULT  
PROPOSED VAULT ELECTRICAL ONE-LINE DIAGRAM SHEET 1

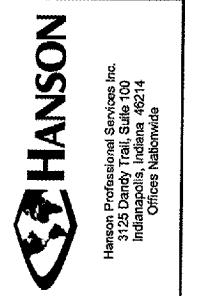


NEW VAULT ELECTRICAL ONE-LINE DIAGRAM (CONTINUED)

DATE	REVISION	BY

KEWANEE MUNICIPAL AIRPORT  
 KEWANEE, HENRY COUNTY, ILLINOIS  
 A.I.P. PROJ.: 3-17-0058-B10  
 I.L. PROJ.: E2-3533

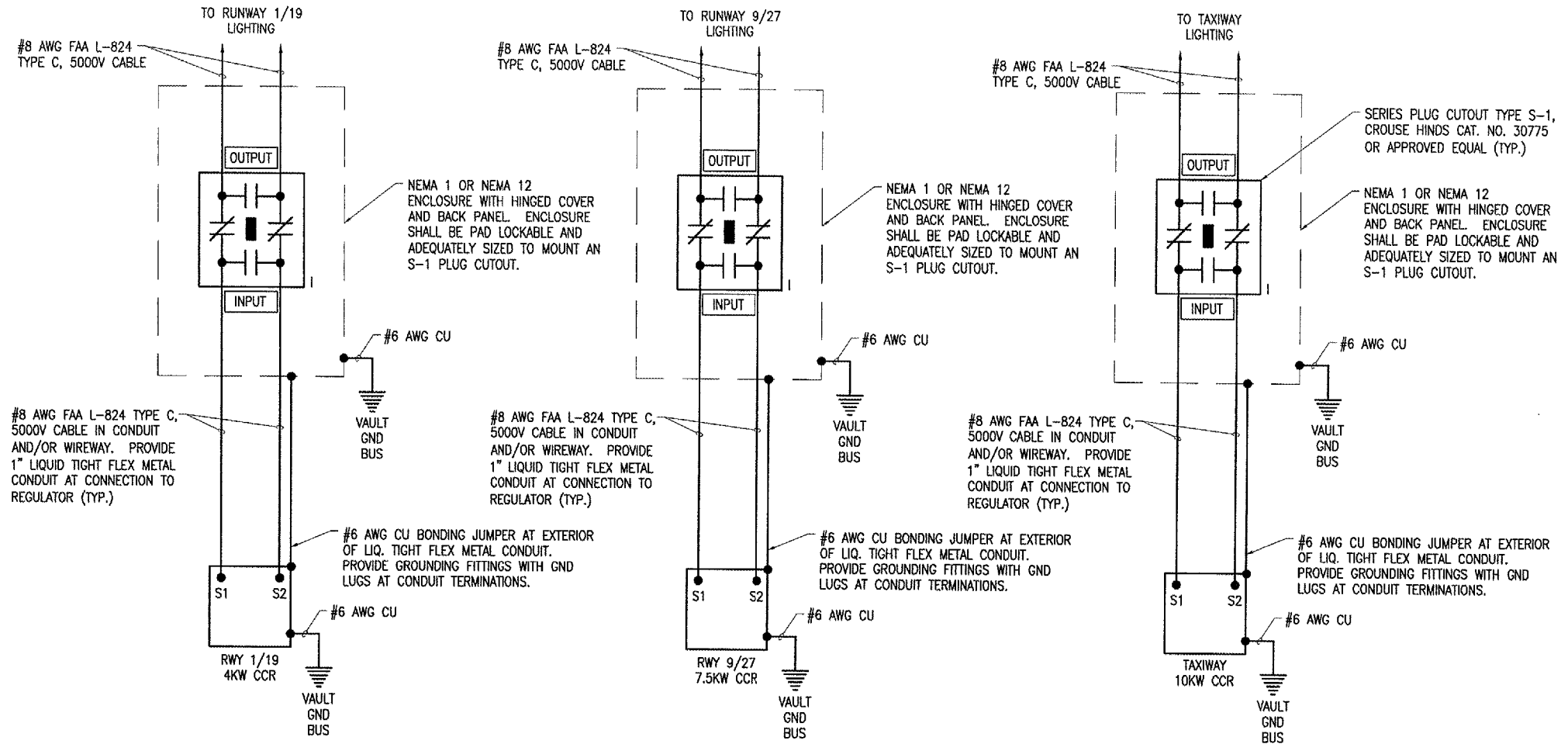
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Engineering E-607.DWG	09/23/05
Scale 1"=50'	09/23/05
Date	01/17/06
LAYOUT KNL	LDP
DRAWN MV	
REVIEWED	



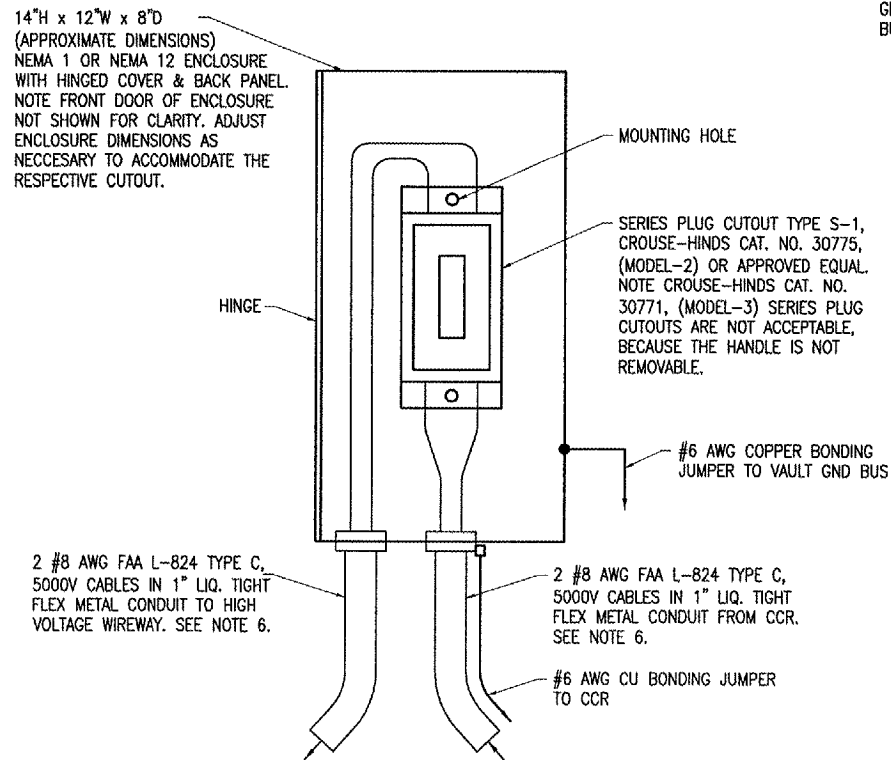
OVERLAY TXY & APRON  
 CONSTRUCT VAULT  
 PROPOSED VAULT  
 ELECTRICAL ONE-LINE  
 DIAGRAM SHEET 2

JAN 18, 2006 9:44 AM DMV  
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HIGH VOLTAGE WIRING SCHEMATIC



SERIES PLUG CUTOUT MOUNTING DETAIL

(TYPICAL FOR 3)

NOTES

1. PROVIDE PHENOLIC ENGRAVED LEGEND PLATES FOR EACH CONSTANT CURRENT REGULATOR NOTING THE REGULATOR DESIGNATION, THE RUNWAY OR TAXIWAY SERVED AND THE POWER SOURCE AND CIRCUIT NUMBER.
2. EACH PLUG CUTOUT CABINET SHALL BE FURNISHED WITH A PHENOLIC ENGRAVED LEGEND PLATE THAT IDENTIFIES THE RESPECTIVE CIRCUIT OR REGULATOR.
3. PROVIDE PHENOLIC ENGRAVED LEGEND PLATES FOR EACH CUTOUT TO IDENTIFY THE RESPECTIVE CUTOUT INPUT CONNECTION AND THE RESPECTIVE CUTOUT OUTPUT CONNECTION.
4. PROVIDE ADEQUATE WORKING SPACE IN FRONT OF EACH CUTOUT ENCLOSURE TO MEET NEC CLEARANCE REQUIREMENTS.
5. PROVIDE WARNING SIGN ON VAULT DOOR LABELED "DANGER - HIGH VOLTAGE - KEEP OUT" PER THE REQUIREMENTS OF NEC 110.34 (C).
6. LIQUID TIGHT FLEXIBLE METAL CONDUIT AND ASSOCIATED FITTINGS SHALL BE U.L. LISTED TO MEET THE REQUIREMENTS OF NEC 350.6, SUITABLE FOR GROUNDING AND SUNLIGHT RESISTANT. LIQUID TIGHT FLEXIBLE METAL CONDUIT THAT IS USED FOR FLEXIBILITY (INCLUDING CONNECTIONS TO CCR'S & TRANSFORMERS) SHALL REQUIRE AN EXTERNAL BONDING JUMPER OR INTERNAL EQUIPMENT GROUNDING CONDUCTOR PER NEC 350.60. EXTERNAL BONDING JUMPERS USED WITH CCR INSTALLATIONS SHALL BE #6 AWG COPPER (MINIMUM). DO NOT INSTALL LIQUID TIGHT FLEXIBLE METAL CONDUIT THAT IS NOT UL LISTED.

LEGEND

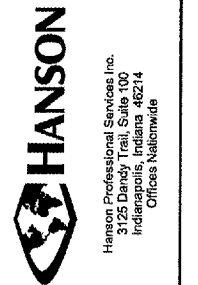
- "I" DENOTES PLUG CUTOUT WITH PLUG INSERTED
- "P" DENOTES PLUG CUTOUT WITH PLUG PULLED
- "CCR" DENOTES CONSTANT CURRENT REGULATOR

BY	
REVISION	
DATE	

Kewanee Municipal Airport  
Kewanee, Henry County, Illinois

IL. PROJ.: E21-3533 A.I.P. PROJ.: 3-17-0058-B10

File Name	810-06TXVD_0800
Drawn	E-604.DWG
Scale	NO SCALE
Date	04/22/05
LAYOUT	KNL 07/12/05
DRAWN	MV 07/12/05
REVIEWED	LDP 01/17/06



OVERLAY TXY & APRON  
CONSTRUCT VAULT  
HIGH VOLTAGE  
WIRING SCHEMATIC

JAN 18, 2006 9:49 AM DWG  
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BY	
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DATE	

Kewanee Municipal Airport  
Kewanee, Henry County, Illinois

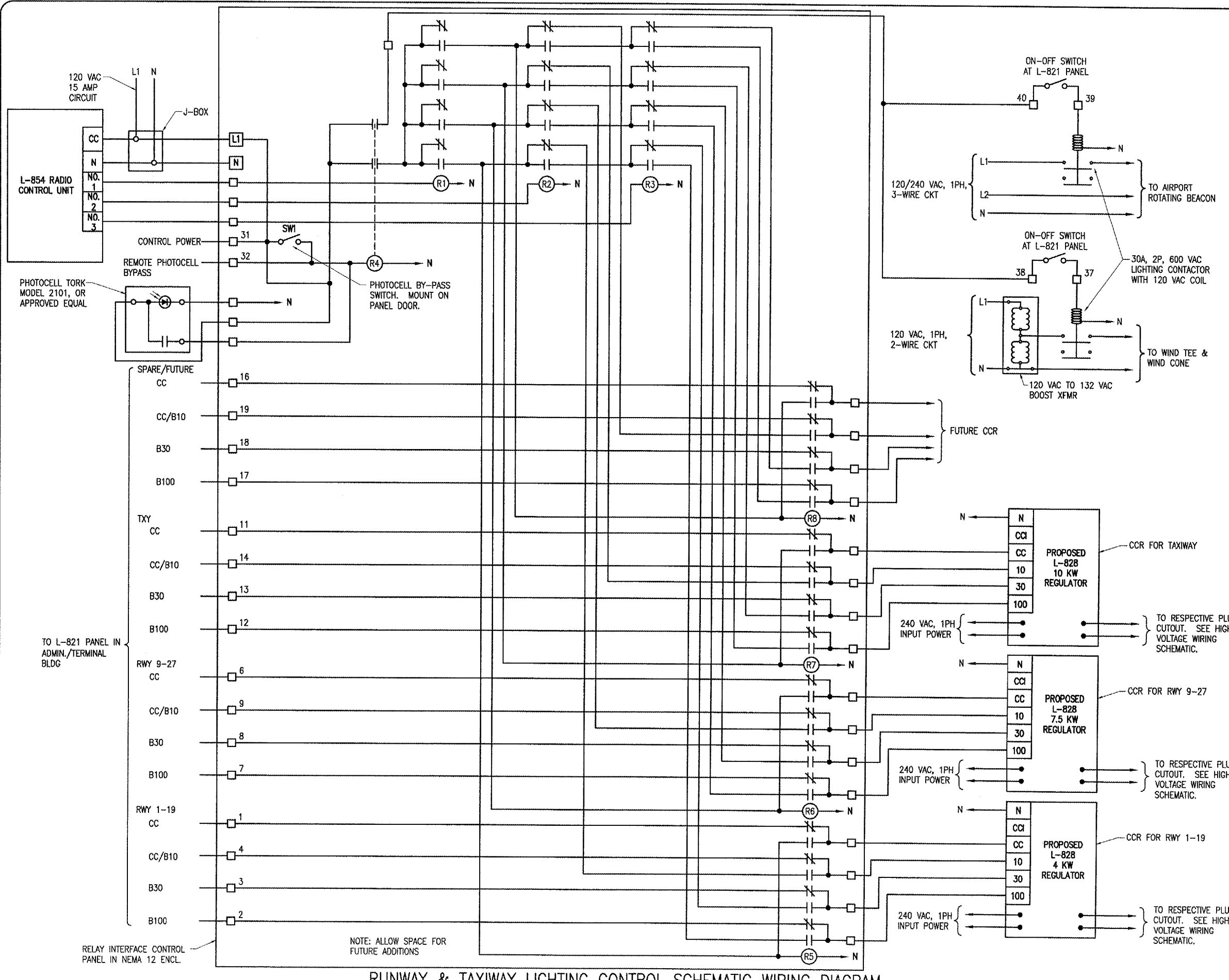
IL PROJ.: E2I-3533 A.I.P. PROJ.: 3-17-0058-B10

Project No.	810-067X7D-0800
Filename	E-611.DWG
Scale	NONE
Date	04/22/05
LAYOUT	KNL 09/23/05
DRAWN	MV 09/27/05
REVIEWED	LDP 01/17/06



OVERLAY TXY & APRON  
CONSTRUCT VAULT  
AIRFIELD LIGHTING  
CONTROL SCHEMATIC

- NOTES
- RELAY INTERFACE CONTROL PANEL SHALL BE MANUFACTURED BY UNIVERSE INC., 1833 W. HOVEY AVENUE, NORMAL, IL. 61761, PHONE: 309-452-5313, FAX: 309-452-2521, OR AN APPROVED EQUIVALENT MANUFACTURER.
  - RELAY INTERFACE CONTROL PANEL WIRING SHALL BE #16 AWG (MINIMUM) COPPER 600 VOLT CABLE. ALL EXTERNAL CONTROL CABLE SHALL BE #12 AWG, COPPER 600 VOLT CABLE.
  - THE RUNWAY/TAXIWAY CIRCUITS WILL BE CONTROLLED BY PHOTOCELL & THE L-854 RADIO CONTROL UNIT IN THE FOLLOWING MANNER: PHOTOCELL OR PHOTOCELL BYPASS SHALL ACTIVATE RADIO CONTROL OR MANUAL CONTROL. REMOTE MANUAL CONTROL FOR INDIVIDUAL CCR'S SHALL BE ACTIVATED BY THE L-821 PANEL AT THE TERMINAL BUILDING. MANUAL CONTROL SHALL ALLOW PRE-SET LIGHTING LEVELS AT 10%, 30%, OR 100% BRIGHTNESS. RADIO CONTROL SHALL OVER-RIDE MANUAL CONTROL SETTINGS. RADIO CONTROL SETTINGS SHALL BE AS FOLLOWS:  
3 CLICKS - 10% BRIGHTNESS  
5 CLICKS - 30% BRIGHTNESS  
7 CLICKS - 100% BRIGHTNESS
  - EQUIPMENT GROUND WIRES SHALL BE INCLUDED WITH EACH BRANCH CIRCUIT & EACH CONTROL CIRCUIT.
  - "N" DENOTES NEUTRAL FOR RESPECTIVE BRANCH CIRCUIT OR CONTROL CIRCUIT.
  - SEE PANELBOARD SCHEDULES & "NEW VAULT ELECTRICAL ONE-LINE DIAGRAM" FOR INFORMATION ON BRANCH CIRCUIT REQUIREMENTS.
  - PROVIDE 2 SPARE CONTROL RELAYS FOR EACH TYPE USED IN THE INTERFACE CONTROL PANEL.



NOTE: ALLOW SPACE FOR FUTURE ADDITIONS

RUNWAY & TAXIWAY LIGHTING CONTROL SCHEMATIC WIRING DIAGRAM

JAN 18, 2006 9:50 AM DMV  
I:\AIRPORTS\KEWANEE\B10-067X7D\AIRPORT\SHEETS\E-611.DWG - Work-FLR

EXISTING L-821 PANEL  
AT TERMINAL BUILDING

KE007

NOTES

1. THE EXISTING L-821 PANEL LOCATED AT THE TERMINAL BUILDING SHALL BE RECONNECTED AS SHOWN. THE REMOTE CCR CONTROL WIRING WILL REQUIRE MODIFICATIONS FROM ITS EXISTING WIRING ARRANGEMENT TO ACCOMMODATE THE NEW RADIO RELAY INTERFACE PANEL. COORDINATE INTERFACE BETWEEN THE EXISTING L-821 PANEL & THE NEW RADIO RELAY INTERFACE PANEL. THE NEW RADIO RELAY INTERFACE CONTROL PANEL SHALL BE MANUFACTURED BY UNIVERSE INC., 1833 W. HOVEY AVENUE, NORMAL, IL 61781, PHONE: 309-452-5313, FAX: 309-452-2521, OR AN APPROVED EQUIVALENT MANUFACTURER.
2. COORDINATE ALL WORK & POWER OUTAGES WITH THE AIRPORT MANAGER.
3. CONTRACTOR SHALL FIELD VERIFY EXISTING CONDITIONS & PROVIDE THE APPROPRIATE CONTROL CIRCUIT MODIFICATIONS TO ACCOMPLISH CONTROL AS DESCRIBED BELOW. THE RUNWAY/TAXIWAY CIRCUITS WILL BE CONTROLLED BY PHOTOCELL & THE L-854 RADIO CONTROL UNIT IN THE FOLLOWING MANNER: PHOTOCELL OR PHOTOCELL BYPASS SHALL ACTIVATE RADIO CONTROL OR REMOTE MANUAL CONTROL. REMOTE MANUAL CONTROL FOR INDIVIDUAL CCR'S SHALL BE ACTIVATED BY THE L-821 PANEL AT THE TERMINAL BUILDING. MANUAL CONTROL SHALL ALLOW PRE-SET LIGHTING LEVELS AT 10%, 30%, OR 100% BRIGHTNESS. RADIO CONTROL SHALL OVER-RIDE MANUAL CONTROL SETTINGS. RADIO CONTROL SETTINGS SHALL BE AS FOLLOWS:  
 3 CLICKS - 10% BRIGHTNESS  
 5 CLICKS - 30% BRIGHTNESS  
 7 CLICKS - 100% BRIGHTNESS

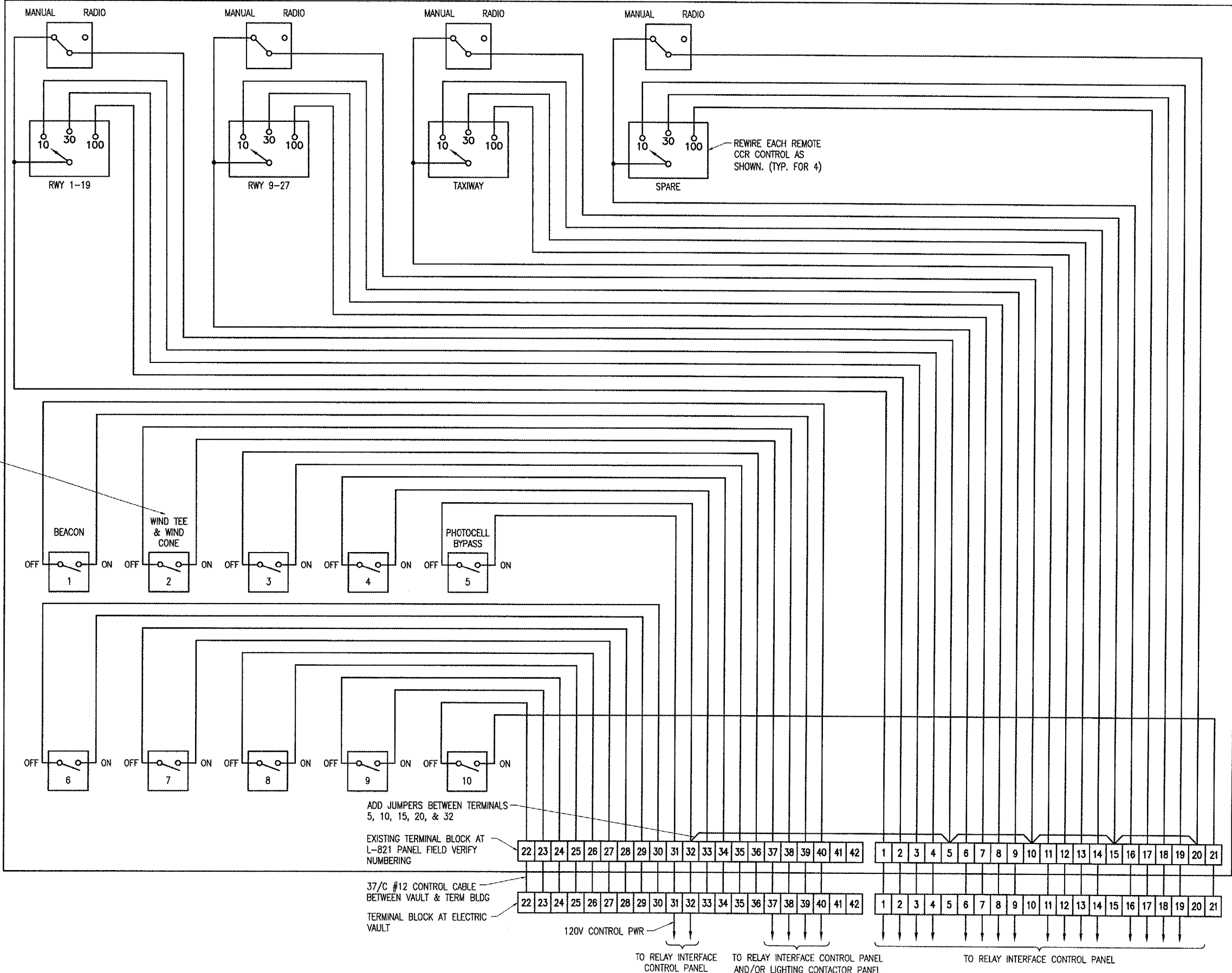
BY	
REVISION	
DATE	

Kewanee Municipal Airport, Illinois  
 Kewanee, Henry County, Illinois  
 A.I.P. PROJ.: 3-17-0058-B10  
 I.L. PROJ.: EZI-3533

HEL Project No.	810-06TXVD_0800
Filename	E-612.DWG
State	IL
Date	04/22/05
LAYOUT	KNL 09/23/05
DRAWN	MY 09/27/05
REVIEWED	LDP 01/17/06



OVERLAY TXY & APRON  
 CONSTRUCT VAULT  
 AIRFIELD LIGHTING  
 CONTROL SCHEMATIC  
 CONTINUED



PROVIDE NEW  
LEGEND PLATE  
FOR WIND TEE  
& WIND CONE

ADD JUMPERS BETWEEN TERMINALS  
5, 10, 15, 20, & 32

EXISTING TERMINAL BLOCK AT  
L-821 PANEL FIELD VERIFY  
NUMBERING

37/C #12 CONTROL CABLE  
BETWEEN VAULT & TERM BLDG

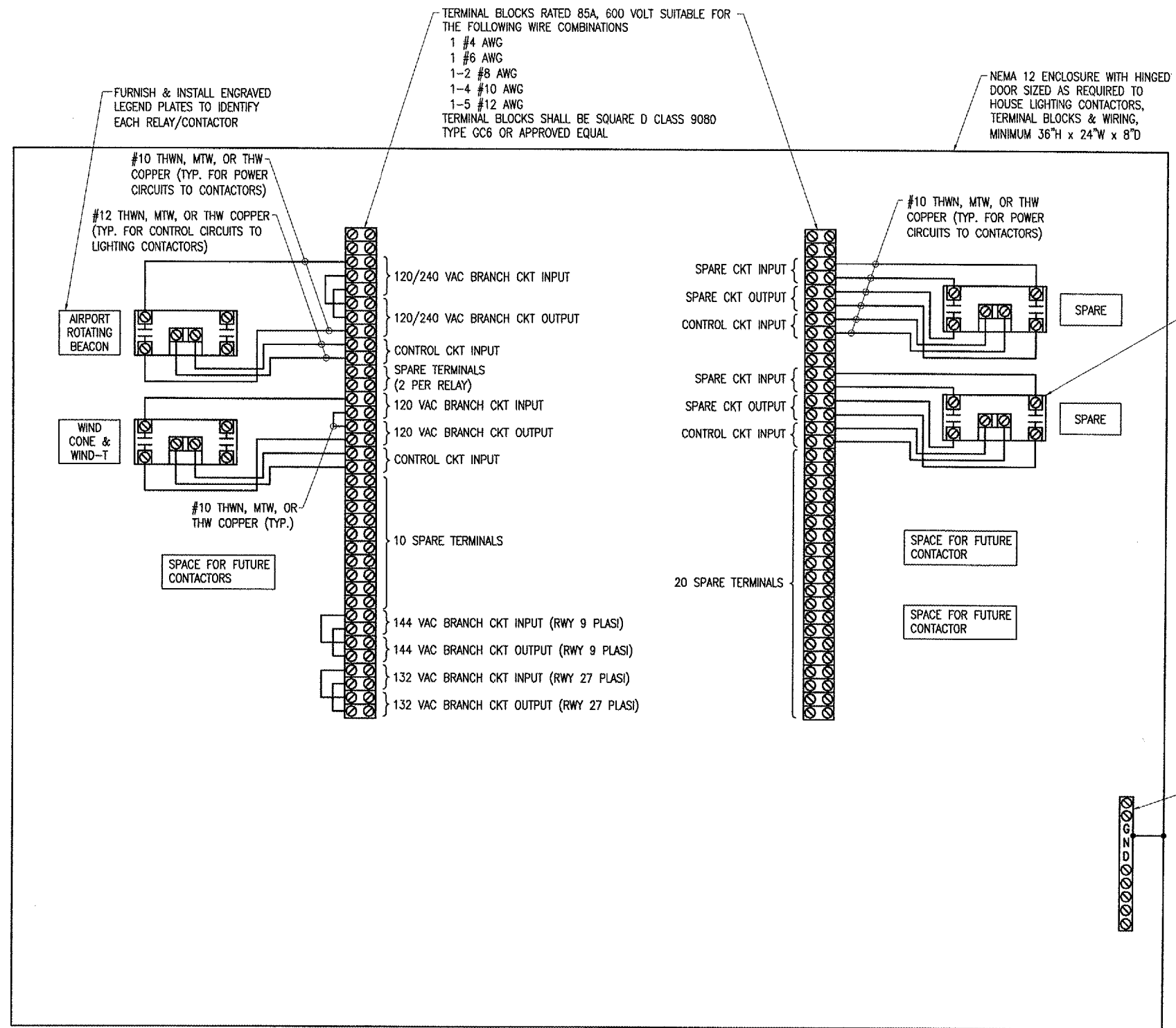
TERMINAL BLOCK AT ELECTRIC  
VAULT

REWIRE EACH REMOTE  
CCR CONTROL AS  
SHOWN. (TYP. FOR 4)

RUNWAY & TAXIWAY LIGHTING CONTROL SCHEMATIC WIRING DIAGRAM

JAN 18, 2006 10:05 AM DWG  
 I:\AIRPORTS\KEWANEE\810-06TXVD\AIRPORT\SHEETS\E-612.DWG - Work-FLR

JAN 18, 2006 10:07 AM DMV  
 I:\AIRPORTS\KEWANEE\810-061X10\AIRPORT\SHEETS\E-609.DWG - Work-FLR



NOTES

- 15 AMP & 20 AMP INPUT POWER/BRANCH CIRCUITS SHALL BE #10 AWG COPPER THWN FROM THE RESPECTIVE POWER SOURCE TO THE LIGHTING CONTACTOR PANEL. 30 AMP INPUT POWER/BRANCH CIRCUITS SHALL BE #8 AWG COPPER THWN (MIN.) FROM THE RESPECTIVE POWER SOURCE TO THE LIGHTING CONTACTOR PANEL.
- INPUT CONTROL CIRCUITS SHALL BE #12 AWG COPPER THWN.
- FOR 120 VAC BRANCH CIRCUITS THE NEUTRAL CONDUCTOR SHALL NOT BE SWITCHED THROUGH THE RELAY CONTACTS. USE TERMINAL BLOCKS TO TRANSITION FROM VAULT BRANCH CIRCUIT WIRING TO FIELD WIRING.
- THE AIRPORT ROTATING BEACON CIRCUIT SHALL HAVE PHASE "A" SWITCHED THROUGH THE LIGHTING CONTACTOR. PHASE "B" SHALL BE UNSWITCHED FROM THE POWER SOURCE TO THE LOAD CENTER AT THE BEACON.
- PROVIDE #10 AWG COPPER BONDING JUMPER FROM PANEL ENCLOSURE FRAME TO ENCLOSURE DOOR.

DATE	REVISION	BY

KEWANEE MUNICIPAL AIRPORT  
 KEWANEE, HENRY COUNTY, ILLINOIS  
 ILL. PROJ.: EZI-3533 A.I.P. PROJ.: 3-17-0058-B10

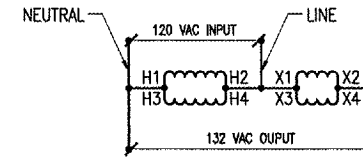
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Filename E-609.DWG	DATE	09/27/05
Scale NONE	DRAWN MW	01/17/06
Date 04/22/05	REVIEWED LDP	



OVERLAY TXY & APRON  
 CONSTRUCT VAULT  
 LIGHTING CONTACTOR  
 PANEL DETAIL

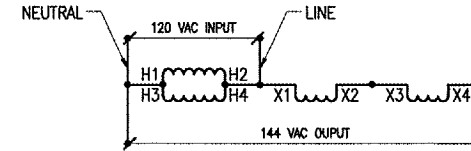


VAULT LEGEND PLATE SCHEDULE	
DEVICE	LABEL
SERVICE PANELBOARD "A"	SERVICE PANEL "A" 120/240 VAC, 1 PH, 3 W
MAIN BREAKER IN SERVICE PANEL "A"	SERVICE DISCONNECT
PANELBOARD "B"	PANEL "B" 120/240 VAC, 1 PH, 3 W
RUNWAY 1-19 CCR	RUNWAY 1-19
TAXIWAY CCR	TAXIWAY
RUNWAY 9-27 CCR	RUNWAY 9-27
CUTOUT ENCLOSURE FOR RUNWAY 1-19	RUNWAY 1-19 CUTOUT
CUTOUT ENCLOSURE FOR TAXIWAY	TAXIWAY CUTOUT
CUTOUT ENCLOSURE FOR RUNWAY 9-27	RUNWAY 9-27 CUTOUT
EACH CUTOUT INPUT SIDE CONNECTION	INPUT
EACH CUTOUT OUTPUT SIDE CONNECTION	OUTPUT
RADIO INTERFACE PANEL FOR RUNWAYS & TAXIWAY	RADIO RELAY INTERFACE CONTROL PANEL
LIGHTING CONTACTOR PANEL	LIGHTING CONTACTOR PANEL FOR AIRFIELD LIGHTING EQUIPMENT
BOOST TRANSFORMER FOR RUNWAY 9 PLASI	RWY 9 PLASI
BOOST TRANSFORMER FOR RUNWAY 27 PLASI	RWY 27 PLASI
BOOST TRANSFORMER FOR WIND CONE	WIND CONE & WIND TEE
LOW VOLTAGE WIREWAY (PROVIDE 4 LEGEND PLATES 1/2" HIGH BLACK LETTERS WHITE BACKGROUND)	LOW VOLTAGE
HIGH VOLTAGE WIREWAY (PROVIDE 4 LEGEND PLATES 1/2" HIGH BLACK LETTERS WHITE BACKGROUND)	HIGH VOLTAGE
VAULT GROUND BUS (PROVIDE 4 LEGEND PLATES 1/2" HIGH WHITE LETTERS GREEN BACKGROUND)	VAULT GROUND BUS



NOTE:  
CONFIRM WIRING WITH RESPECTIVE  
TRANSFORMER MFR.

120 VAC TO 132 VAC BOOST TRANSFORMER  
CONNECTION DIAGRAM FOR SQUARE D  
CAT. NO. 250SV43B OR CAT. NO. 500SV43B TRANSFORMER



NOTE:  
CONFIRM WIRING WITH RESPECTIVE  
TRANSFORMER MFR.

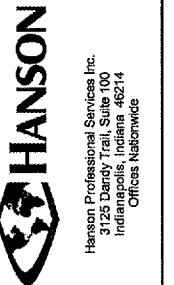
120 VAC TO 144 VAC BOOST TRANSFORMER  
CONNECTION DIAGRAM FOR SQUARE D  
CAT. NO. 500SV43B TRANSFORMER

NOTE: LEGEND PLATES SHALL BE WEATHERPROOF ENGRAVED PLASTIC OR PHENOLIC MATERIAL, 1/4" HIGH BLACK LETTERS ON A WHITE BACKGROUND UNLESS NOTED OTHERWISE. SECURE WITH WEATHERPROOF ADHESIVE AND MACHINE SCREWS. FURNISH ADDITIONAL LEGEND PLATES WHERE REQUIRED BY CODE, FOR ADDITIONAL EQUIPMENT, AS DETAILED HEREIN ON THE PLANS, AND AS NOTED IN THE SPECIAL PROVISION SPECIFICATIONS.

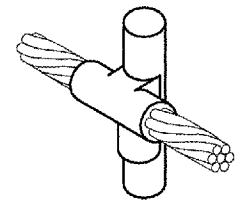
BY	REVISION	DATE

KEWANEE MUNICIPAL AIRPORT  
KEWANEE, HENRY COUNTY, ILLINOIS  
A.I.P. PROJ.: 3-17-0058-B10  
I.L. PROJ.: E21-3533

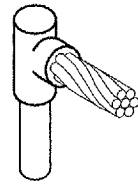
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LAYOUT	KNL	07/12/05	
DRAWN	MV	09/27/05	
REVIEWED	LDP	01/17/06	



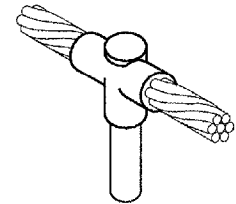
OVERLAY TXY & APRON  
CONSTRUCT VAULT  
LEGEND PLATE SCHEDULE  
AND TRANSFORMER  
WIRING DIAGRAMS



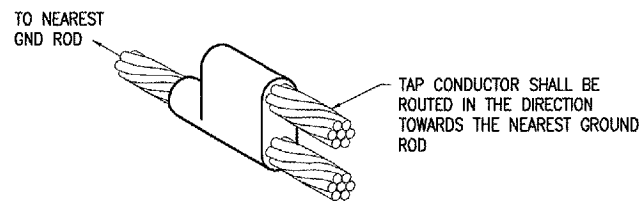
**CABLE TO GROUND ROD**



**CABLE TO GROUND ROD**



**CABLE TO GROUND ROD**

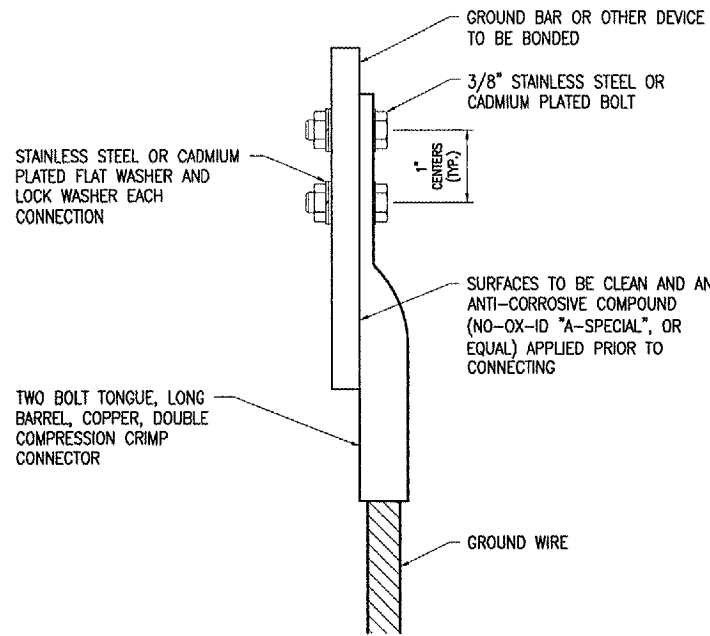


**CABLE TO CABLE HORIZONTAL PARALLEL TAP**

**DETAIL NOTES**

1. EXOTHERMIC WELDS SHALL BE CADWELD AS MANUFACTURED BY ERICO PRODUCTS, SOLON, OHIO OR THERMOWELD AS MANUFACTURED BY CONTINENTAL INDUSTRIES, TULSA, OKLAHOMA. VERIFY PROPER SIZES, TYPES, AND REQUIREMENTS FOR THE RESPECTIVE APPLICATION WITH THE MANUFACTURER, AND INSTALL PER THEIR DIRECTIONS.
2. FOR APPLICATIONS TO METAL SURFACES THAT ARE LESS THAN 3/16" THICK CONTACT THE EXOTHERMIC WELD MANUFACTURER FOR DIRECTION AND INSTRUCTION ON EXOTHERMIC WELD INSTALLATION TO THE RESPECTIVE SURFACE.
3. FOR APPLICATIONS TO GALVANIZED STEEL OR PAINTED STEEL, REMOVE GALVANIZING AND/OR PAINT & CLEAN THE SURFACE TO EXPOSE BARE STEEL BEFORE MAKING EXOTHERMIC WELD CONNECTION.
4. INDIVIDUAL GROUNDING ELECTRODE CONDUCTORS SHALL NOT BE INSTALLED IN METAL CONDUIT. INSTALL GROUNDING ELECTRODE CONDUCTORS IN SCHED 40 PVC CONDUIT AS REQUIRED IN FOUNDATIONS, FOR PROTECTION, WHERE ENTERING ENCLOSURES, ETC.

**EXOTHERMIC WELD DETAILS**

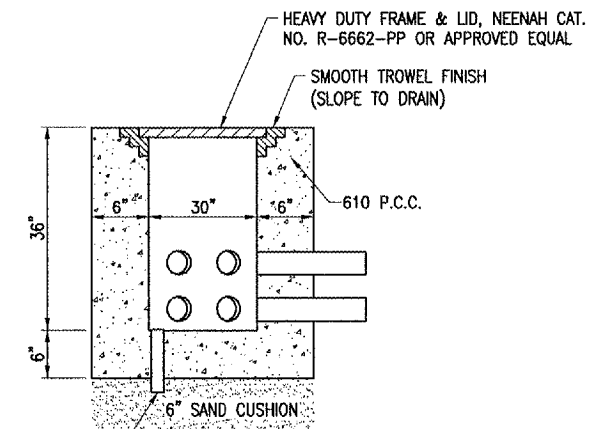
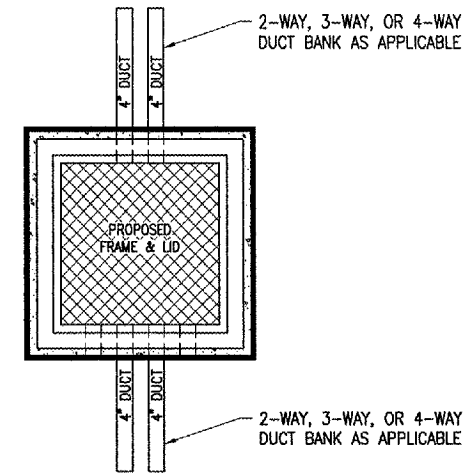


2 HOLE LONG BARREL COMPRESSION LUG TABLE		
WIRE SIZE	BURNDY CAT. NO.	THOMAS & BETTS CAT. NO.
#6 AWG STRANDED	YA6C-2TC38	256-30695-1158
#4 AWG STRANDED	YA4C-2TC38	256-30695-1159
#2 AWG STRANDED	YA2C-2TC38	256-30695-1160
#2 AWG SOLID	YA3C-2TC38	256-30695-1160
#1/0 AWG STRANDED	YA25-2TC38	256-30695-1162
#2/0 AWG STRANDED	YA26-2TC38	256-30695-1116
#3/0 AWG STRANDED	YA27-2TC38	54816BE

**NOTES**

1. ALL CONNECTIONS TO GROUND BUS BAR SHALL BE WITH 2 HOLE TONGUE LONG BARREL COMPRESSION LUGS BOLTED TO THE BUS BAR.
2. GROUND WIRE CONNECTIONS TO EQUIPMENT SHALL BE WITH 2 HOLE TONGUE LONG BARREL COMPRESSION LUGS BOLTED TO THE DEVICE OR WITH THE RESPECTIVE EQUIPT MANUFACTURER'S LUG OR TERMINAL WHERE APPLICABLE.
3. GROUNDING ELECTRODE CONDUCTORS, BONDING JUMPERS, & INDIVIDUAL GROUND WIRES SHALL NOT BE INSTALLED IN METAL CONDUIT.
4. ALL CONNECTIONS SHALL BE COATED WITH A CORROSION PREVENTATIVE COMPOUND (SANCHEM INC. NO-OX-ID "A-SPECIAL", BURNDY PENETROX E, OR EQUAL) BEFORE JOINING. ALL COPPER BUS BARS SHALL BE CLEANED PRIOR TO MAKING CONNECTIONS TO REMOVE SURFACE OXIDATION. CLEAN SURFACES, OF RESPECTIVE DEVICES TO BE BONDED, TO BARE METAL, PER NEC 250-12.

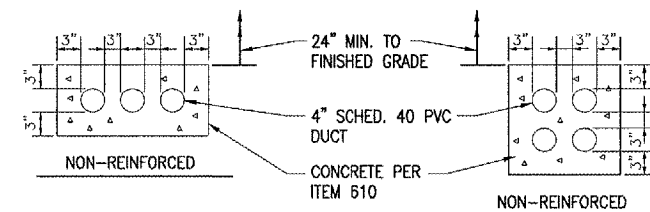
**GROUNDING LUG CONNECTION DETAIL**



**NOTE:**

LIDS FOR LOW VOLTAGE HANDHOLES SHALL BE LABELED "LOW VOLTAGE". LIDS FOR HIGH VOLTAGE HANDHOLES SHALL BE LABELED "HIGH VOLTAGE". COORDINATE LETTERING WITH MFR.

**ELECTRICAL HANDHOLE DETAIL**



**NOTES:**

- 1.) ALL DIMENSIONS ARE MINIMUM.
- 2.) INCLUDE DUCT SPACERS AS MANUFACTURED BY UNDERGROUND DEVICES INC., TO MAINTAIN PROPER SEPARATION OF CONDUITS.

**CONCRETE ENCASED DUCT DETAIL**

(3-WAY & 4-WAY SHOWN)

BY	REVISION	DATE

KEWANEE MUNICIPAL AIRPORT  
KEWANEE, HENRY COUNTY, ILLINOIS

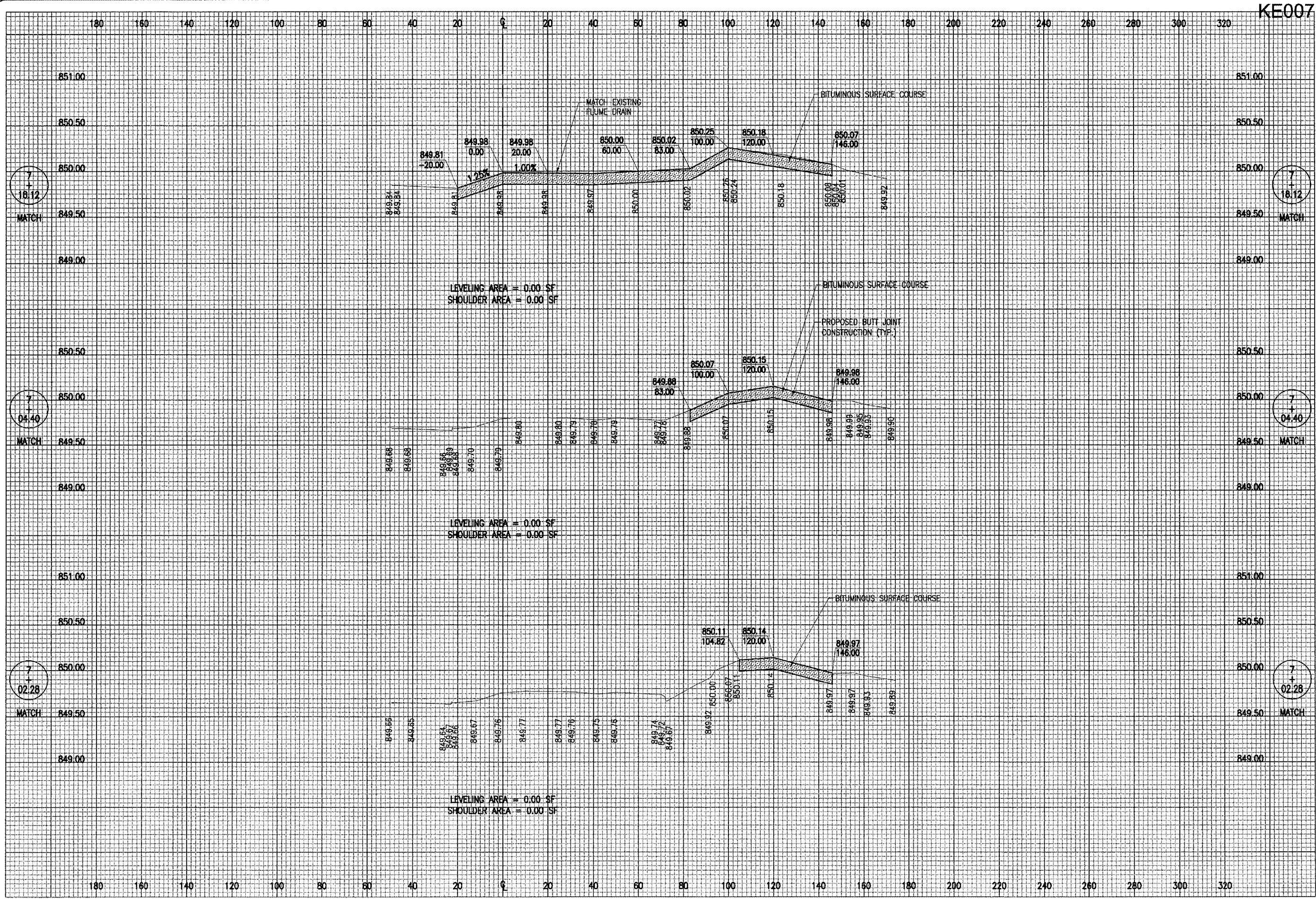
IL PROJ.: E21-3533 A.I.P. PROJ.: 3-17-0058-B10

HEL Project No. 810-06TXD 0800	File Name E-501.DWG	NO SCALE	04/22/05
LAYOUT	KNL	07/12/05	
DRAWN	MW	07/12/05	
REVIEWED	LDP	01/17/06	

**HANSON**  
Hanson Professional Services Inc.  
3125 Dandy Trail, Suite 100  
Indianapolis, Indiana 46214  
Offices Nationwide

OVERLAY TXY & APRON  
CONSTRUCT APRON  
ELECTRICAL AND  
GROUNDING DETAILS

JAN 19, 2006 8:21 PM RAW  
I:\AIRPORTS\KEWANEE\8 0-06TXD\AIRPORT\SHEETS\R-301-RAMP.DWG - STA. 7+02.28 TO STA. 7+18.12



KE007

DATE	REVISION	BY

KEWANEE MUNICIPAL AIRPORT  
KEWANEE, HENRY COUNTY, ILLINOIS

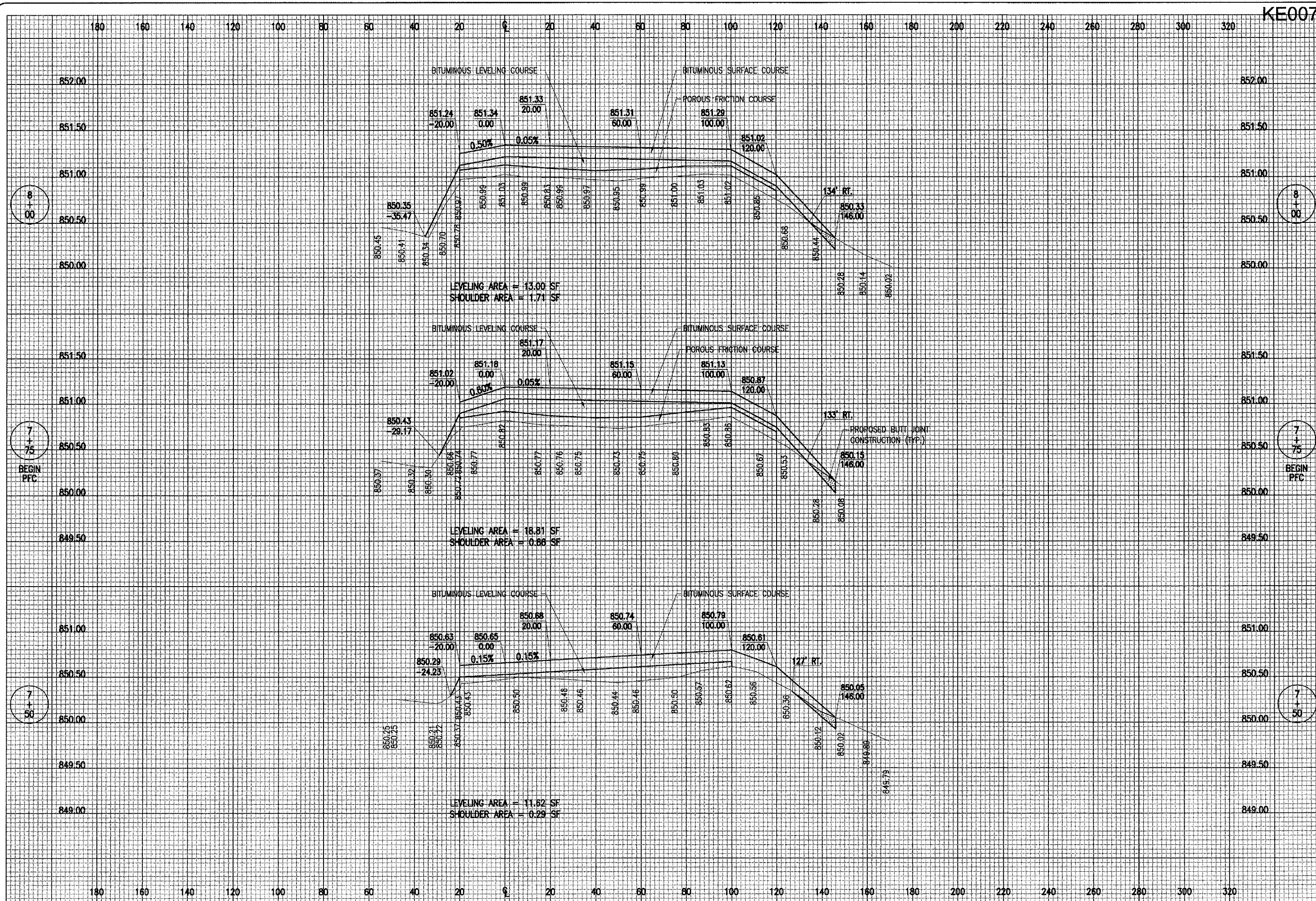
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Project No. 810-06TXD.0800	
Drawings R-301-RAMP.DWG	
Scale H. 1" = 20' V. 1" = 0.5'	
Date 08/29/05	
LAYOUT R.A.W. 08/29/05	
DRAWN B.A.K. 08/29/05	
REVIEWED C.A.H. xx/xx/xx	



OVERLAY TXY & APRON  
CONSTRUCT VAULT  
PROPOSED  
APRON CROSS-SECTIONS  
STA. 7+02.28 TO STA. 7+18.12

JAN 19, 2006 8:21 PM RAW  
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KE007

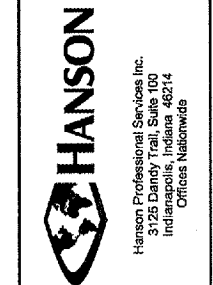
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Project No. 810-06TXD.0800  
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 Date: 08/29/05

**KEWANEE MUNICIPAL AIRPORT  
 KEWANEE, HENRY COUNTY, ILLINOIS**

IL PROJ.: E2I-3533 A.I.P. PROJ.: J-17-0058-B10

LAYOUT	R.A.W.	08/29/05
DRAWN	B.A.K.	08/29/05
REVIEWED	C.A.H.	xx/xx/xx

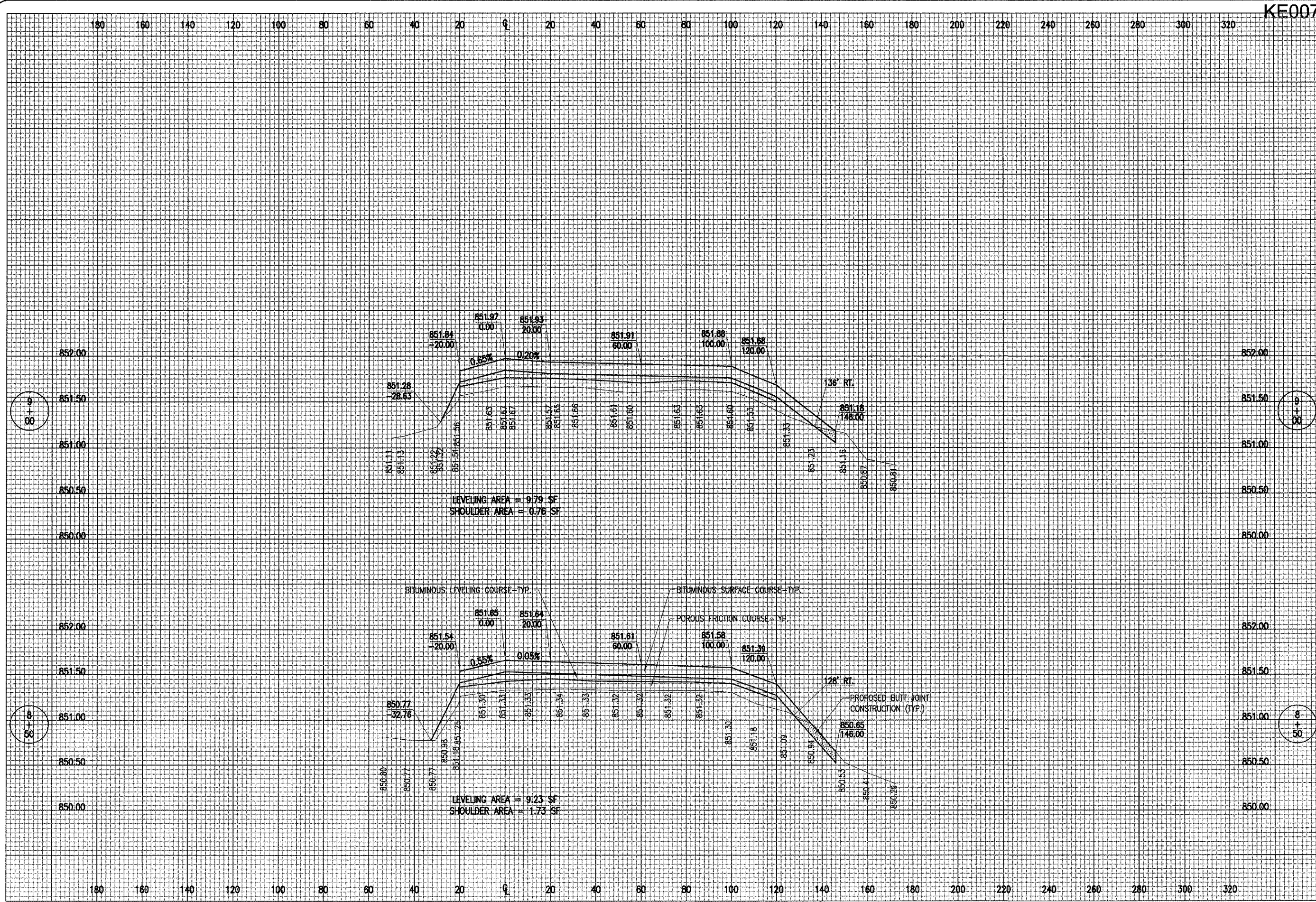


**OVERLAY TXY & APRON  
 CONSTRUCT VAULT**

PROPOSED  
 APRON CROSS-SECTIONS  
 STA. 7+50 TO STA. 8+00

JAN 19, 2006 8:22 PM RAW  
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KE007



DATE	REVISION	BY

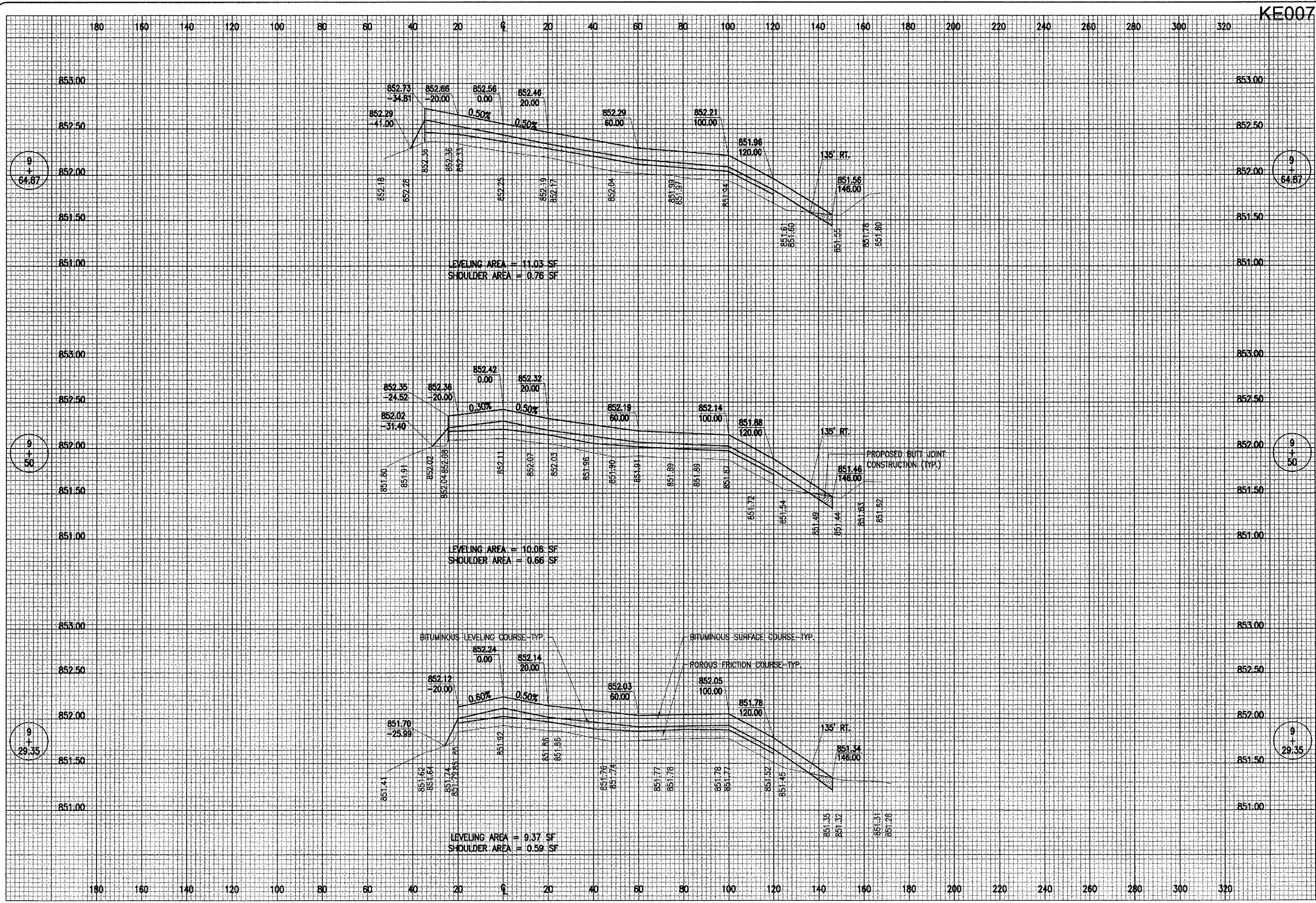
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**KEWANEE, HENRY COUNTY, ILLINOIS**  
 I.L. PROJ.: E2-3533 A.I.P. PROJ.: 3-17-0058-810

HE Project No. 810-061XXD-0800	DATE: 08/29/05
Filename: R-303-RAMP.DWG	Scale: H. 1" = 20' V. 1" = 0.5'
Scale: 08/29/05	DATE: 08/29/05
LAYOUT	R.A.W.
DRAWN	B.A.K.
REVIEWED	C.A.H.
	xx/xx/xx



**OVERLAY TAXY & APRON  
 CONSTRUCT VAULT**  
 PROPOSED  
 APRON CROSS-SECTIONS  
 STA. 8+50 TO STA. 9+00

JAN 19, 2006 8:22 PM RAW  
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KE007

DATE	REVISION	BY

KEWANEE MUNICIPAL AIRPORT  
 KEWANEE, HENRY COUNTY, ILLINOIS

ILL. PROJ.: EZI-3533 A.I.P. PROJ.: 3-17-00568-B10

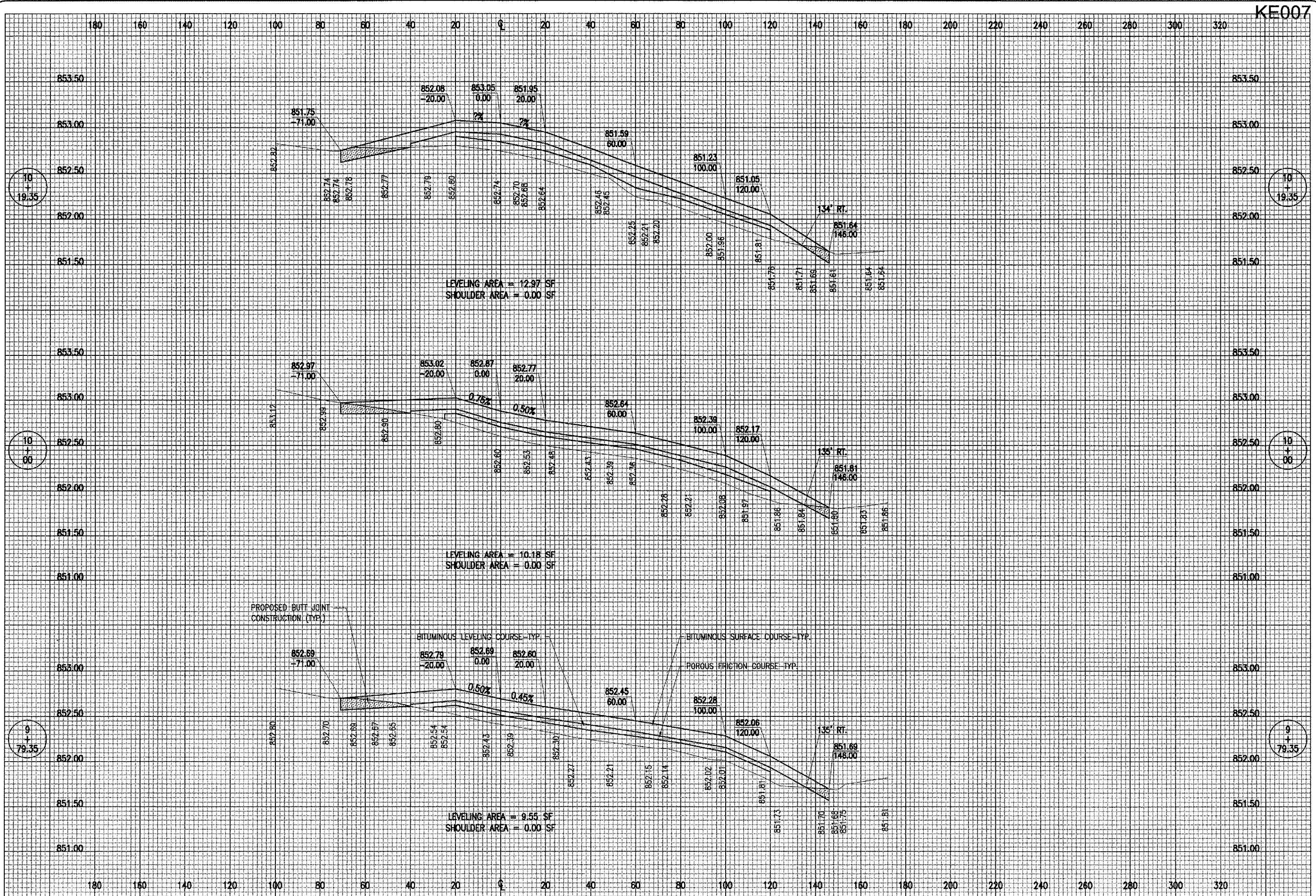
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LAYOUT	R.A.W. 08/29/05
DRAWN	B.A.K. 08/29/05
REVIEWED	C.A.H. xx/xx/xx

**HANSON**  
 Hanson Professional Services Inc.  
 3126 Dandy Trail, Suite 100  
 Indianapolis, Indiana 46214  
 Offices Nationwide

OVERLAY TXY & APRON  
 CONSTRUCT VAULT

PROPOSED  
 APRON CROSS-SECTIONS  
 STA. 9+29.35 TO STA. 9+64.87

JAN 19, 2006 8:22 PM RAW  
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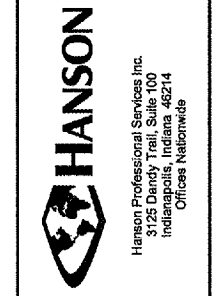
KE007

DATE	REVISION	BY

KEWANEE MUNICIPAL AIRPORT  
 KEWANEE, HENRY COUNTY, ILLINOIS

IL PROJ.: E2I-3533 A.I.P. PROJ.: 3-17-0058-B10

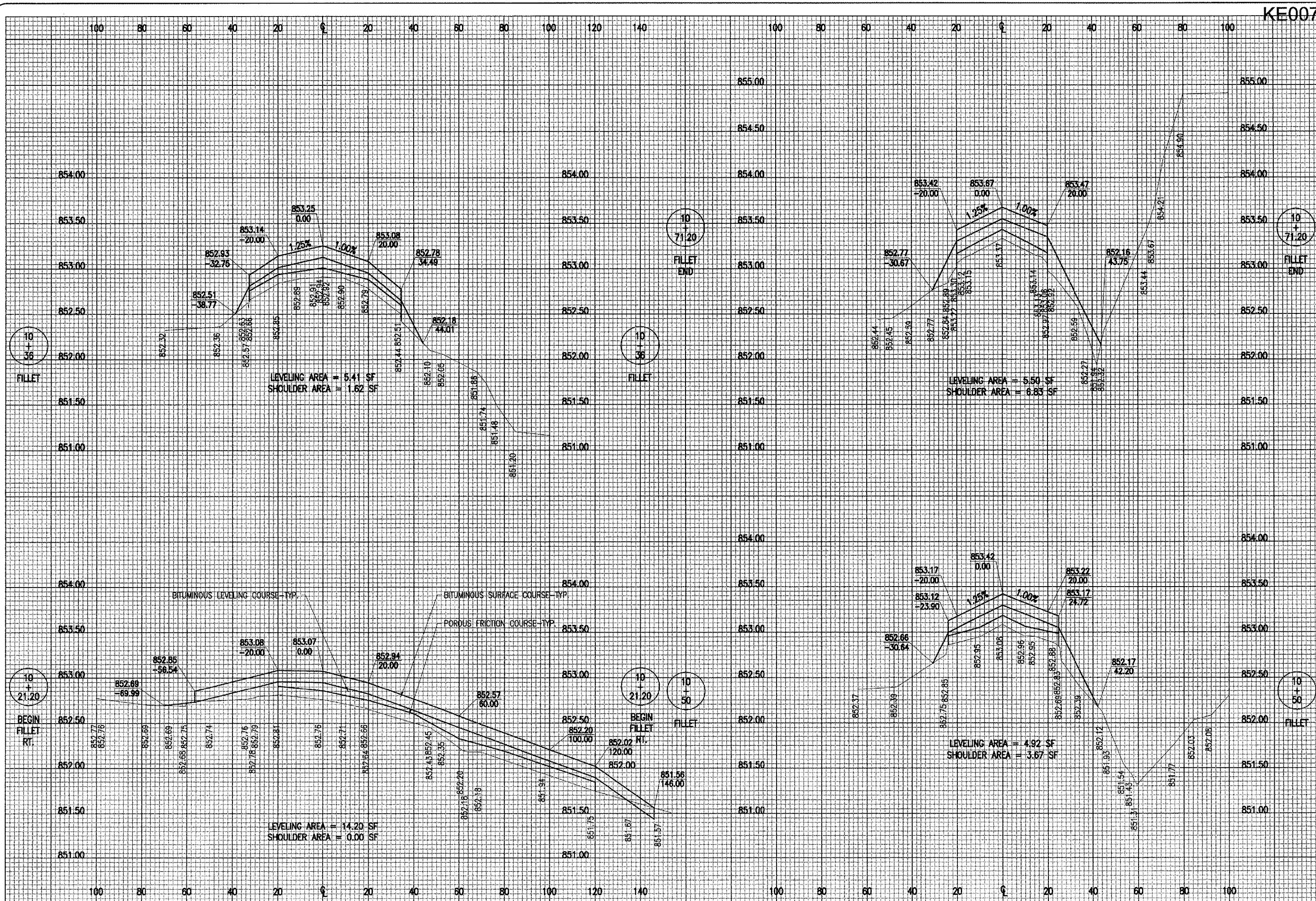
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LAYOUT	R.A.W.	08/29/05	
DRAWN	B.A.K.	08/29/05	
REVIEWED	C.A.H.	xx/xx/xx	



OVERLAY TXY & APRON  
 CONSTRUCT VAULT

PROPOSED  
 APRON CROSS-SECTIONS  
 STA. 9+79.35 TO STA. 10+19.35

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KE007

DATE	REVISION	BY

KEWANEE MUNICIPAL AIRPORT  
 KEWANEE, HENRY COUNTY, ILLINOIS  
 I.L. PROJ.: E21-3533 A.I.P. PROJ.: 3-17-0058-B10

Project No.	810-06TXD.0800
Plan No.	R-307-TXRB.DWG
Scale	H. 1" = 20' V. 1" = 0.5'
Date	08/30/05
LAYOUT	R.A.W. 08/30/05
DRAWN	B.A.K. 08/30/05
REVIEWED	C.A.H. xx/xx/xx

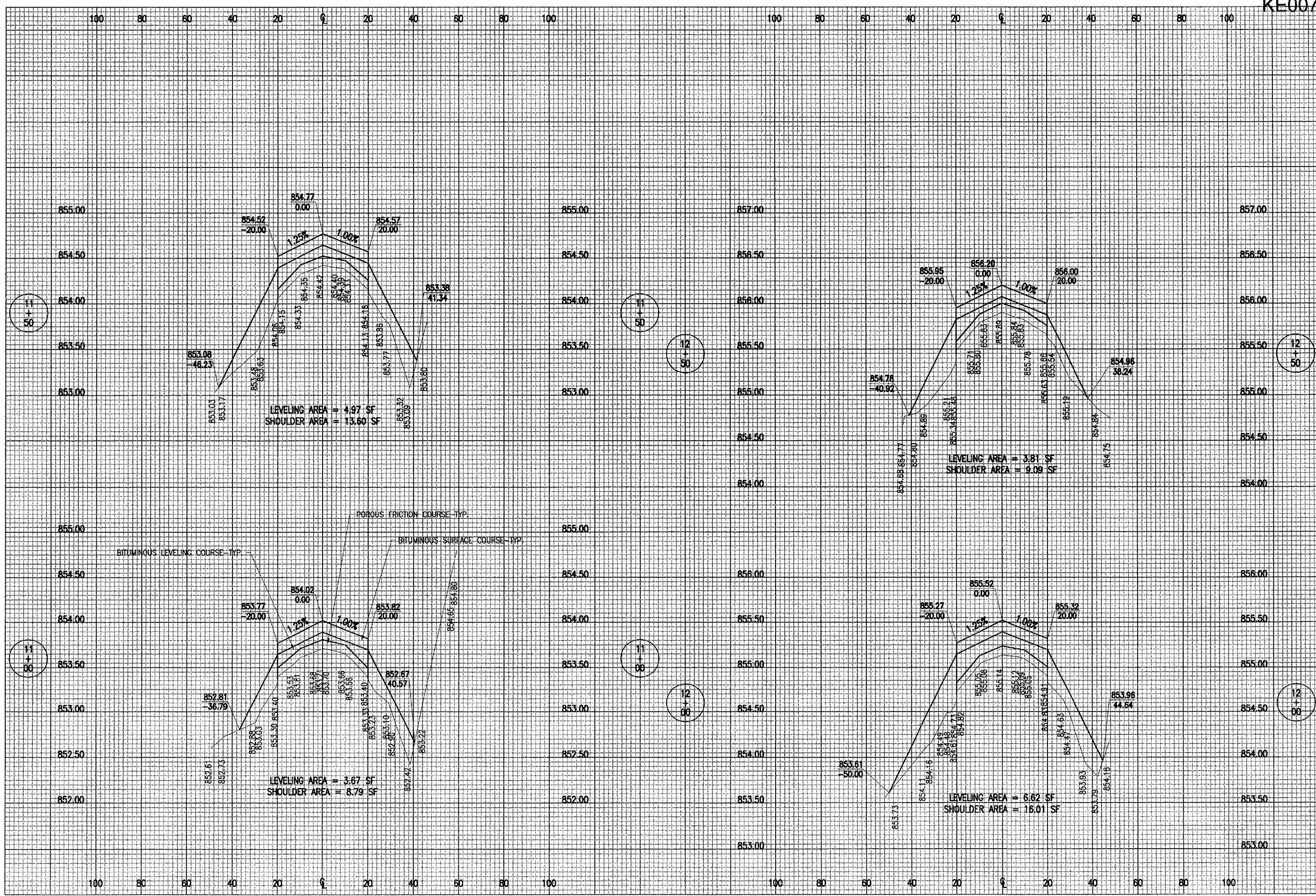


OVERLAY TXY & APRON  
 CONSTRUCT VAULT  
 PROPOSED  
 TAXWAY 'B' CROSS-SECTIONS  
 STA. 10+21.20 TO STA. 10+71.20



JAN 19, 2006 8:23 PM RAW  
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KE007

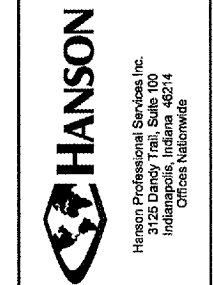


DATE	REVISION	BY

**KEWANEE MUNICIPAL AIRPORT**  
**KEWANEE, HENRY COUNTY, ILLINOIS**

IL PROJ.: E21-3533 A.I.P. PROJ.: 3-17-0058-B10

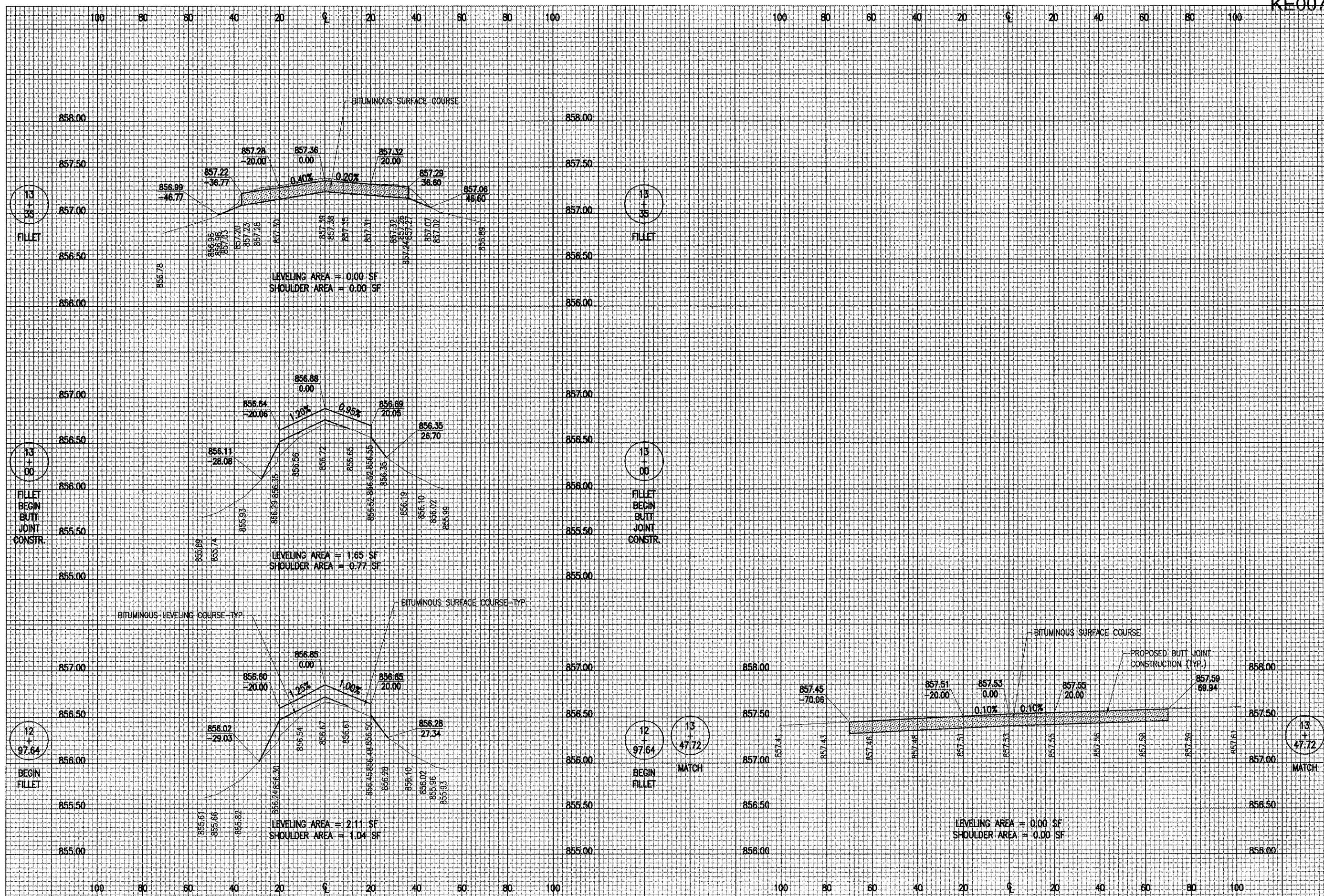
Project No.	810-06TX.DWG
Figure	R-308-TX1B.DWG
Scale	H. 1" = 20' V. 1" = 0.5'
Date	08/30/05
LAYOUT	R.A.W. 08/30/05
DRAWN	B.A.K. 08/30/05
REVIEWED	C.A.H. xx/xx/xx



**OVERLAY TX1 & APRON CONSTRUCT VAULT**

PROPOSED TAXIWAY "B" CROSS-SECTIONS  
 STA. 11+00 TO STA. 12+50

JAN 19, 2006 8:23 PM RAY  
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KE007

DATE	REVISION	BY

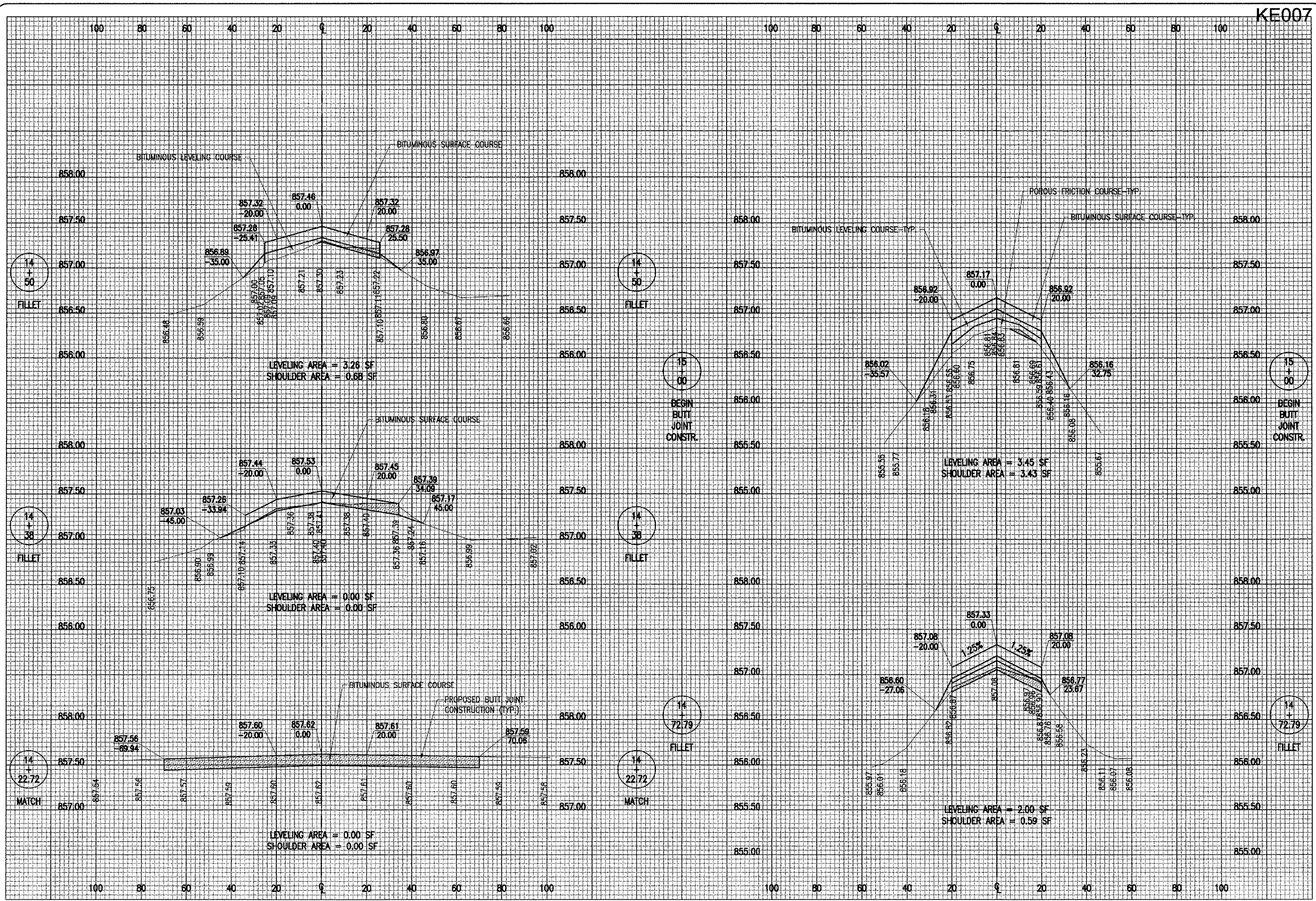
KEWANEE MUNICIPAL AIRPORT  
 KEWANEE, HENRY COUNTY, ILLINOIS  
 I.L. PROJ.: E2I-3533 A.I.P. PROJ.: 3-17-0058-B10

LAYOUT		R.A.W.	08/30/05
DRAWN		B.A.K.	08/30/05
REVIEWED		C.A.H.	xx/xx/xx

**HANSON**  
 Hanson Professional Services, Inc.  
 3125 Dandy Trail, Suite 100  
 Indianapolis, Indiana 46214  
 Offices Nationwide

OVERLAY TX1 & APRON  
 CONSTRUCT VAULT  
 PROPOSED  
 TAXIWAY "B" CROSS-SECTIONS  
 STA. 12+97.64 TO STA. 13+47.72

JAN 19, 2006 8:23 PM RAW  
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DATE	REVISION	BY

**KEWANEE MUNICIPAL AIRPORT**  
**KEWANEE, HENRY COUNTY, ILLINOIS**  
 I.L. PROJ.: E2I-3533 A.I.P. PROJ.: 3-17-0058-810

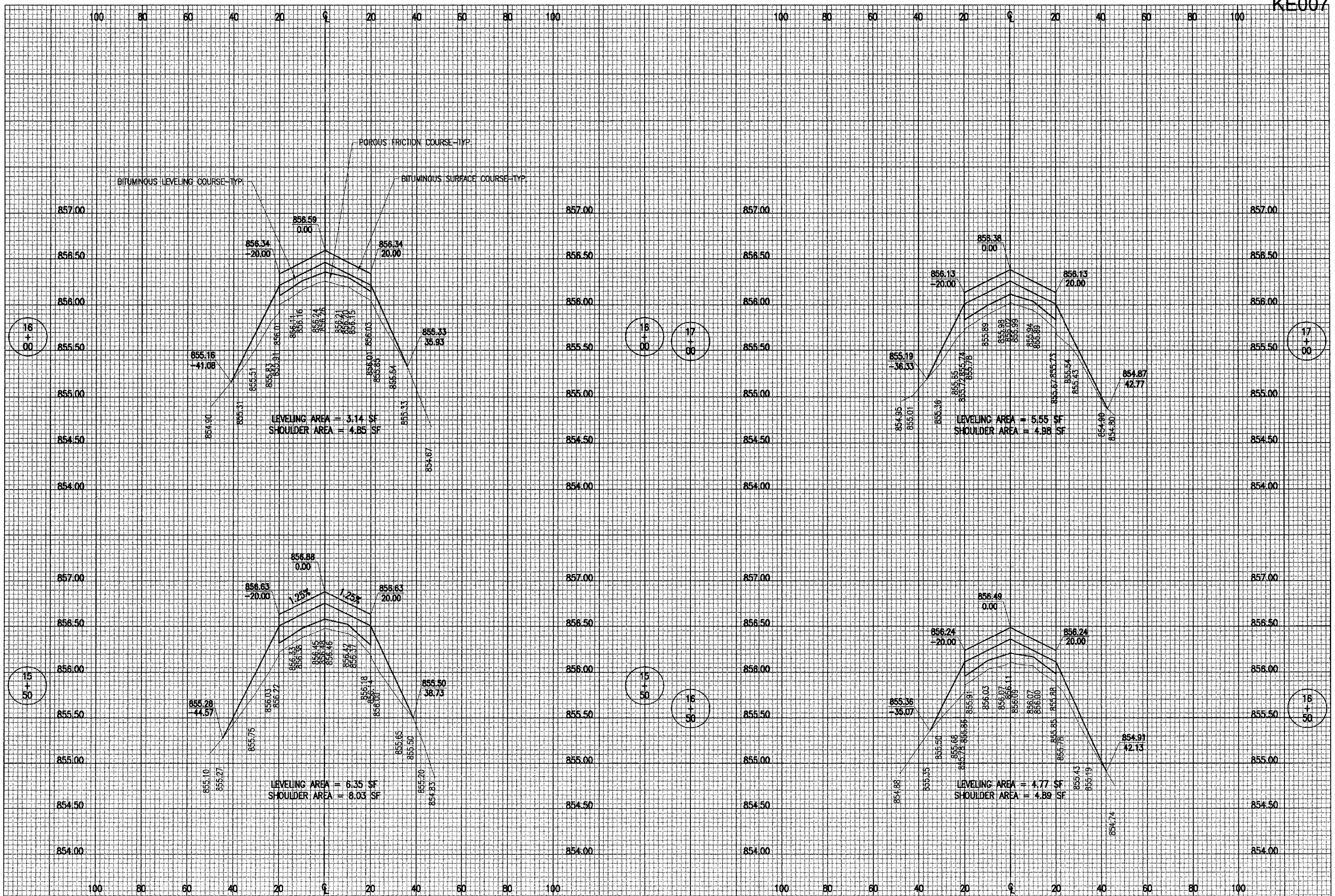
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Filename: R-310-TYXB.DWG	DATE	08/31/05
Scale: H. 1" = 20' V. 1" = 0.5'	LAYOUT	08/31/05
Date: 08/31/05	DRAWN	08/31/05
	REVIEWED	xx/xx/xx



**OVERLAY TYX & APRON**  
**CONSTRUCT VAULT**  
 PROPOSED  
 TAXWAY "B" CROSS-SECTIONS  
 STA. 14+22.72 TO STA. 15+00

JAN 19, 2006 8:23 PM RAW  
 I:\AIRPORTS\KEWANEE\B10-06TXVD\AIRPORT SHEETS\R-311-TXVB.DWG - STA. 15+50 TO STA. 17+00

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DATE	REVISION	BY

KEWANEE MUNICIPAL AIRPORT  
 KEWANEE, HENRY COUNTY, ILLINOIS  
 I.L. PROJ.: E71-3533 A.I.P. PROJ.: 3-17-0058-810

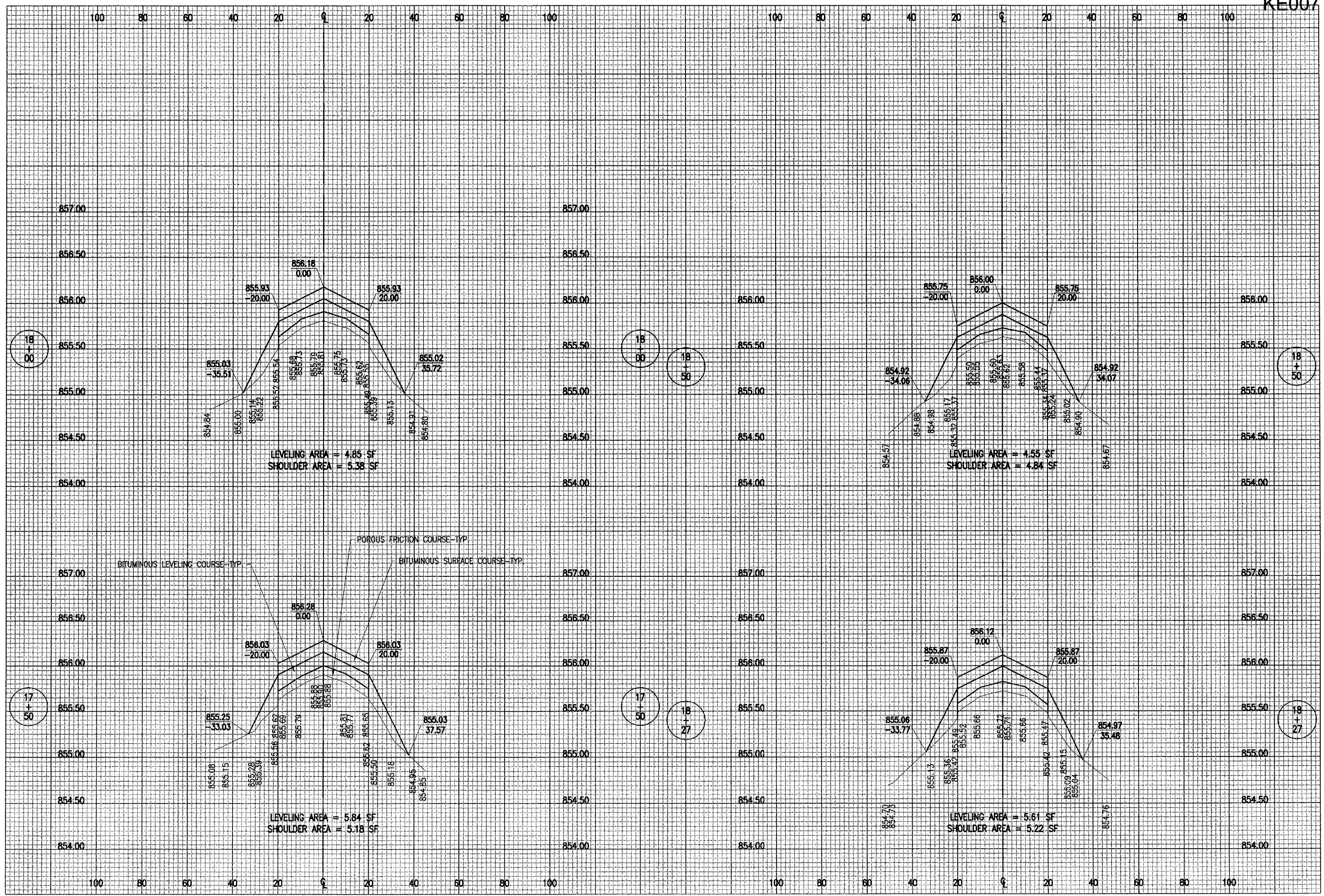
FILED PROJECT NO. 810-06TXVD_0800	DATE 08/23/05
FILENAME R-311-TXVB.DWG	DRAWN R.A.W.
SCALE H. 1" = 20' V. 1" = 0.5'	REVIEWED C.A.H.
DATE 08/23/05	DATE 08/23/05



OVERLAY TXV & APRON  
 CONSTRUCT VAULT  
 PROPOSED  
 TAXIWAY "B" CROSS-SECTIONS  
 STA. 15+50 TO STA. 17+00

JAN 19, 2006 8:23 PM RAW  
 I:\AIRPORTS\KEWANEE\B10-06TXD\AIRPORT\SHEETS\R-312-TXVB.DWG - STA. 17+50 TO STA. 18+50

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DATE	REVISION	BY

KEWANEE MUNICIPAL AIRPORT  
 KEWANEE, HENRY COUNTY, ILLINOIS  
 I.L. PROJ.: E21-3533 A.I.P. PROJ.: 3-17-0058-B10

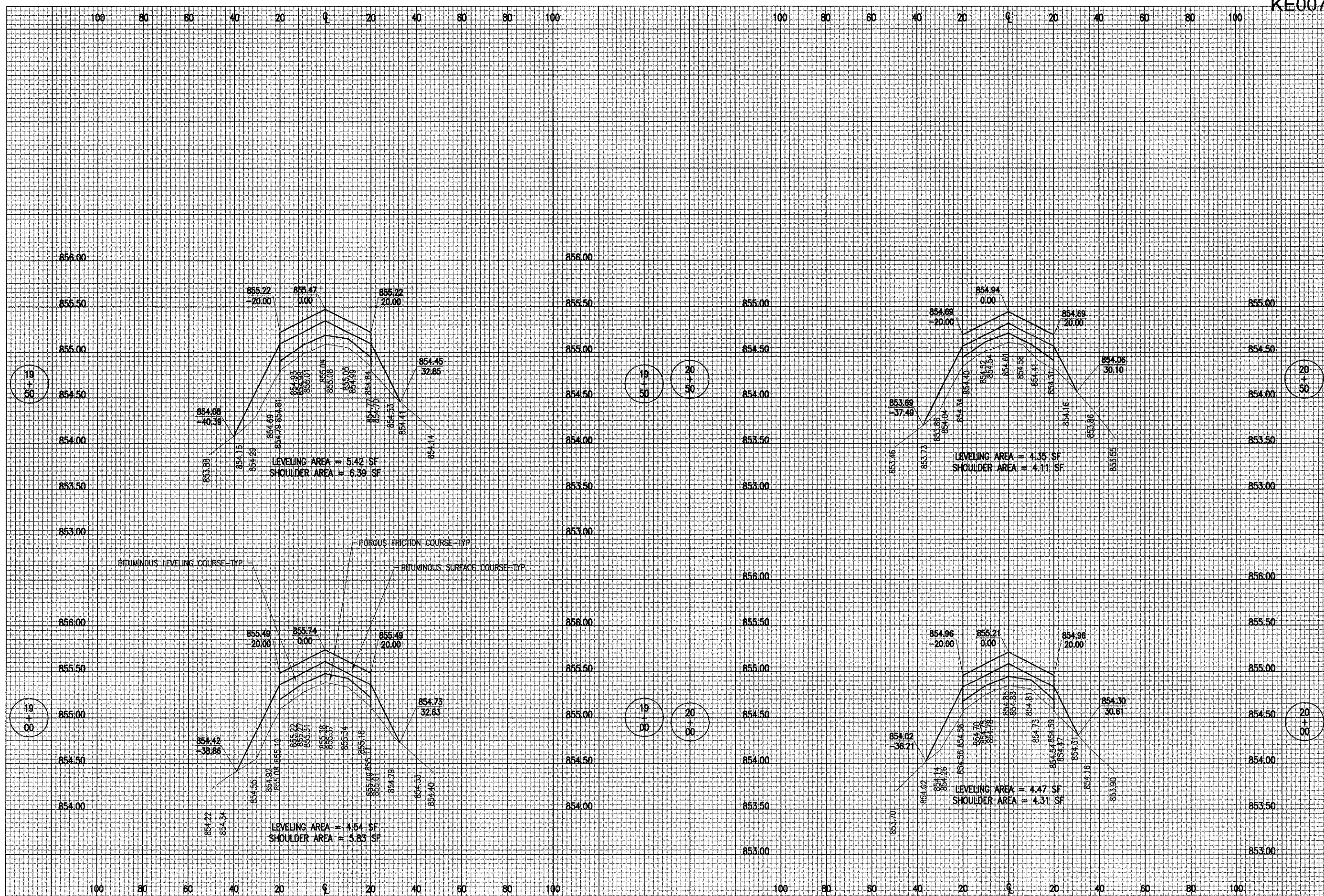
Project No. 810-06TXD_0800	
Figure R-312-TXVB.DWG	
Scale H. 1" = 20' V. 1" = 0.5'	
Date 08/23/05	
LAYOUT R.A.W. 08/23/05	
DRAWN B.A.K. 08/23/05	
REVIEWED C.A.H. xy/xx/xx	



OVERLAY TXV & APRON  
 CONSTRUCT VAULT  
 PROPOSED  
 TAXIWAY "B" CROSS-SECTIONS  
 STA. 17+50 TO STA. 18+50

JAN 19, 2006 8:24 PM RAW  
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DATE	REVISION	BY

**KEWANEE MUNICIPAL AIRPORT**  
**KEWANEE, HENRY COUNTY, ILLINOIS**  
 I.L. PROJ.: E21-3533 A.I.P. PROJ.: 3-17-0058-B10

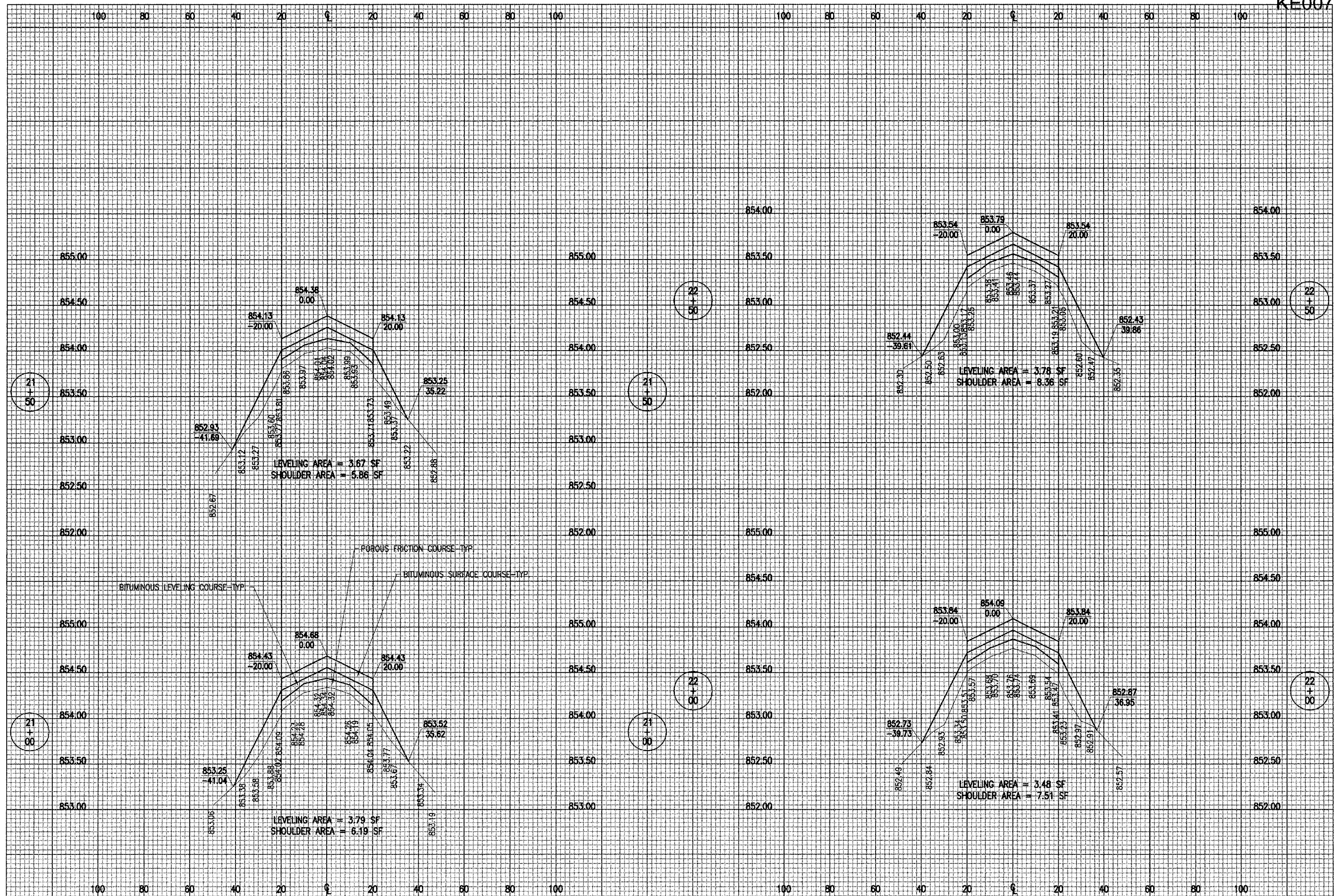
Project No.	810-06TXYD.0800
Planname	R-313-TXYB.DWG
Scale	H. 1" = 20' V. 1" = 0.5'
Date	08/23/05
LAYOUT	R.A.W. 08/23/05
DRAWN	B.A.K. 08/23/05
REVIEWED	C.A.H. xx/xx/xx



**OVERLAY TXY & APRON  
 CONSTRUCT VAULT**  
 PROPOSED  
 TAXIWAY "B" CROSS-SECTIONS  
 STA. 19+00 TO STA. 20+50

JAN 19, 2006 8:24 PM RAW  
 I:\AIRPORTS\KEWANEE\810-06TXYD\AIRPORT\SHEETS\R-314-TXYB.DWG - STA. 21+00 TO STA. 22+50

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DATE	REVISION	BY

**KEWANEE MUNICIPAL AIRPORT**  
**KEWANEE, HENRY COUNTY, ILLINOIS**  
 A.I.P. PROJ.: 3-17-0058-B10  
 I.L. PROJ.: EZI-3533

HSI Project No.: 810-06TXYD 0800 Filename: R-314-TXYB.DWG Scale: H. 1" = 20' V. 1" = 0.5' Date: 08/24/05	LAYOUT R.A.W. 08/24/05 DRAWN B.A.K. 08/24/05 REVIEWED C.A.H. xx/xx/xx
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**OVERLAY TXY & APRON CONSTRUCT VAULT**  
 PROPOSED TAXIWAY "B" CROSS-SECTIONS  
 STA. 21+00 TO STA. 22+50

DATE	REVISION	BY

**KEWANEE MUNICIPAL AIRPORT**  
**KEWANEE, HENRY COUNTY, ILLINOIS**

IL PROJ.: E21-3533 A.I.P. PROJ.: 3-17-0058-B10

HEL Project No. 810-061XYD-0800  
 Elevation R-315-TXVB.DWG  
 Scale H. 1" = 20' V. 1" = 0.5'  
 Date 08/24/05

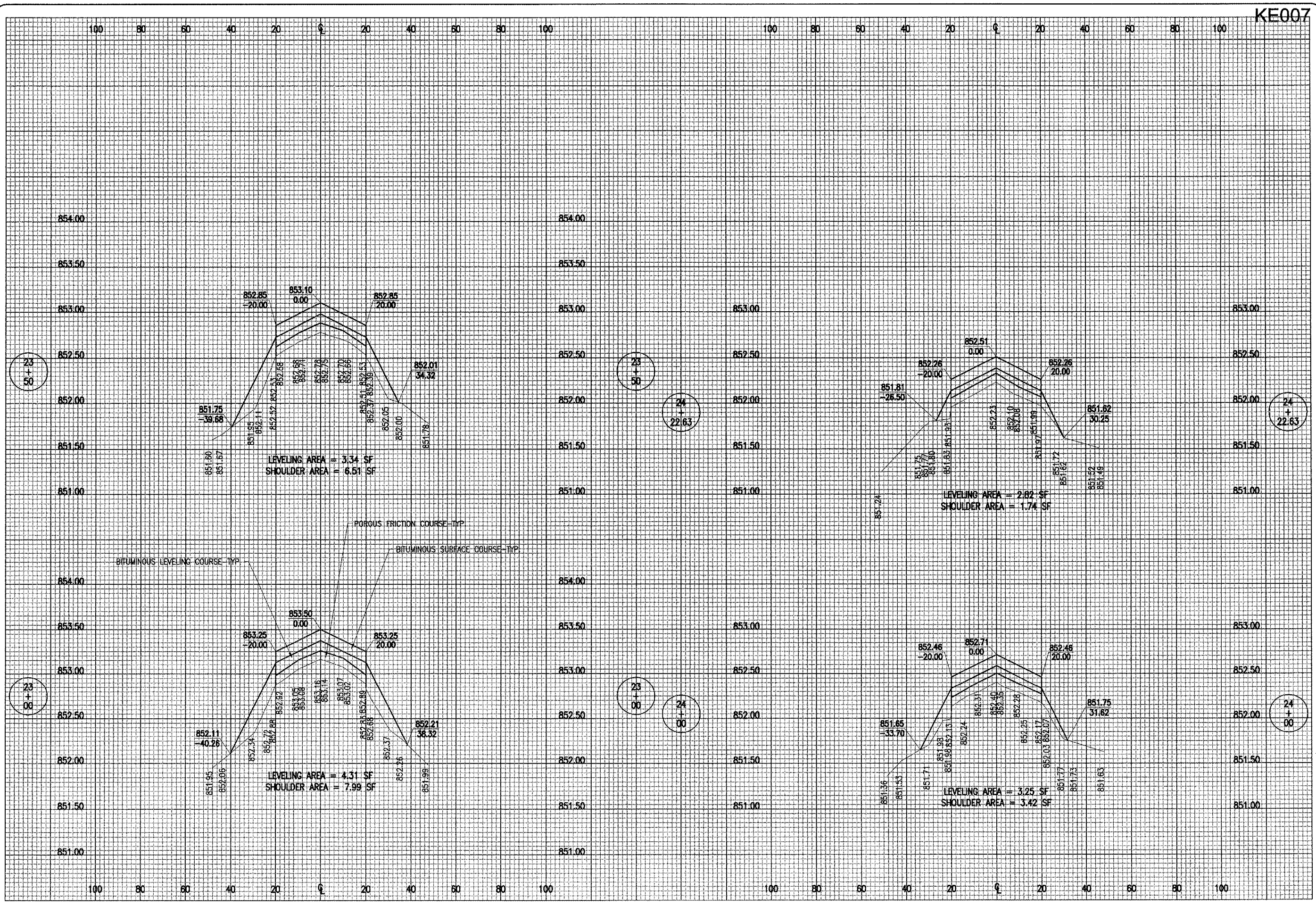
LAYOUT	R.A.W.	08/24/05
DRAWN	B.A.K.	08/24/05
REVIEWED	C.A.H.	xx/xx/xx



Hanson Professional Services Inc.  
 3125 Dandy Trail, Suite 100  
 Indianapolis, Indiana 46214  
 Offices Nationwide

**OVERLAY TXY & APRON  
 CONSTRUCT VAULT**  
 PROPOSED  
 TAXIWAY "B" CROSS-SECTIONS  
 STA. 23+00 TO STA. 24+22.63

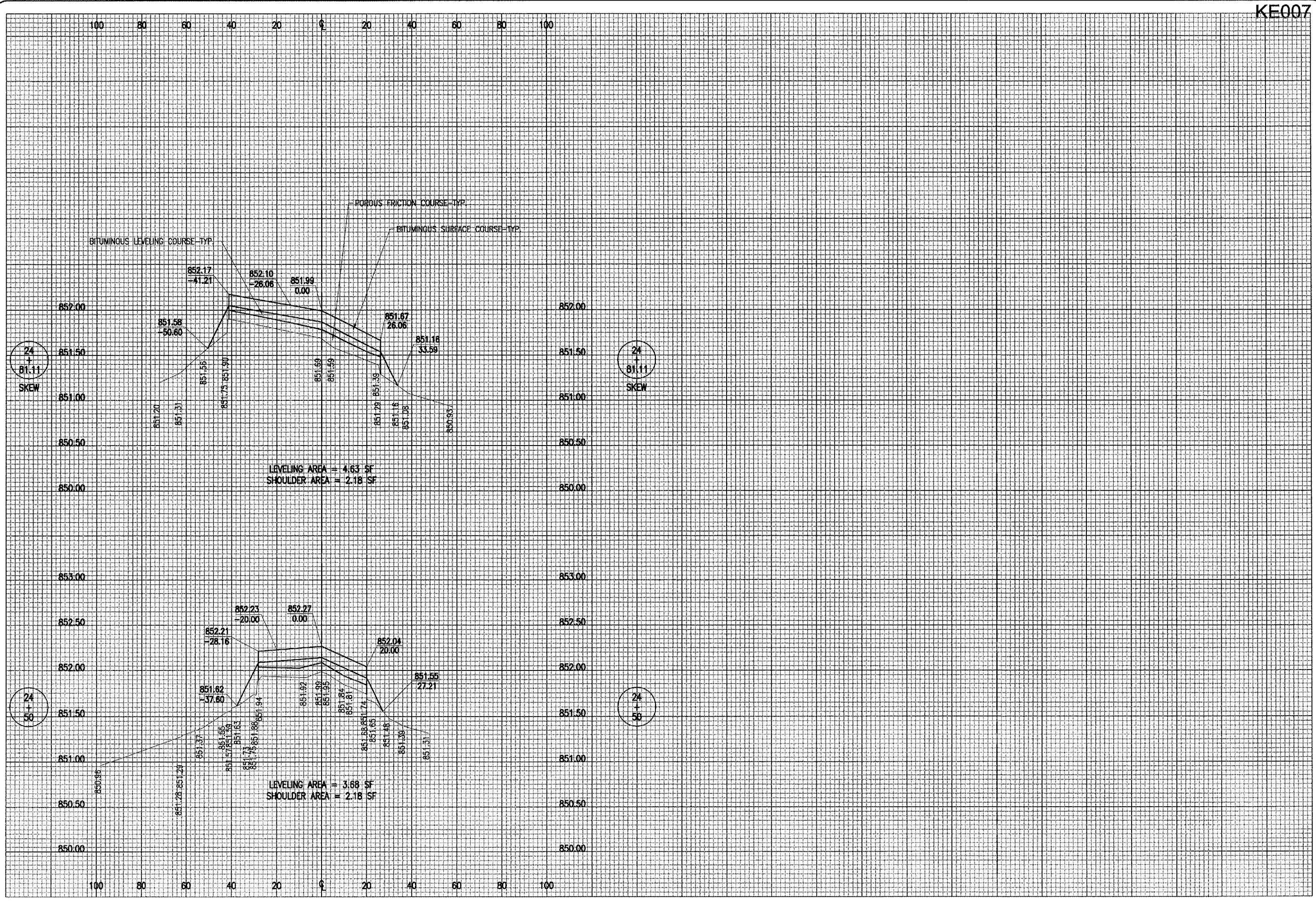
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JAN 19, 2006 8:24 PM RAW  
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DATE	REVISION	BY

KEWANEE MUNICIPAL AIRPORT  
 KEWANEE, HENRY COUNTY, ILLINOIS  
 I.L. PROJ.: EZI-3533 A.I.P. PROJ.: 3-17-0058-B10

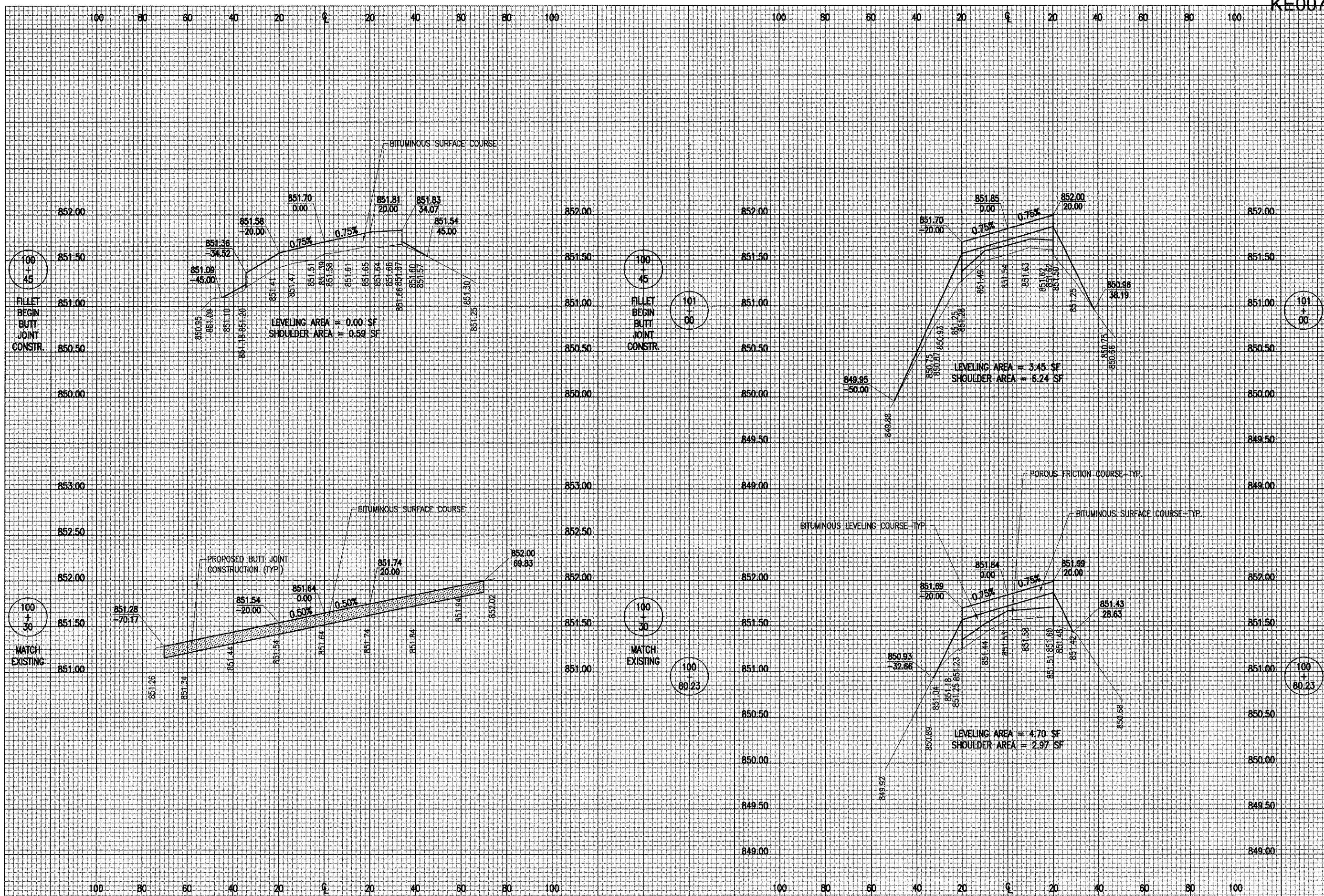
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Filename R-316-TXYB.DWG	
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Date	08/24/05
LAYOUT	R.A.W. 08/24/05
DRAWN	B.A.K. 08/24/05
REVIEWED	C.A.H. xx/xx/xx



OVERLAY TXY & APRON  
 CONSTRUCT VAULT  
 PROPOSED  
 TAXIWAY "B" CROSS-SECTIONS  
 STA. 24+50 TO STA. 24+81.11

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DATE	REVISION	BY

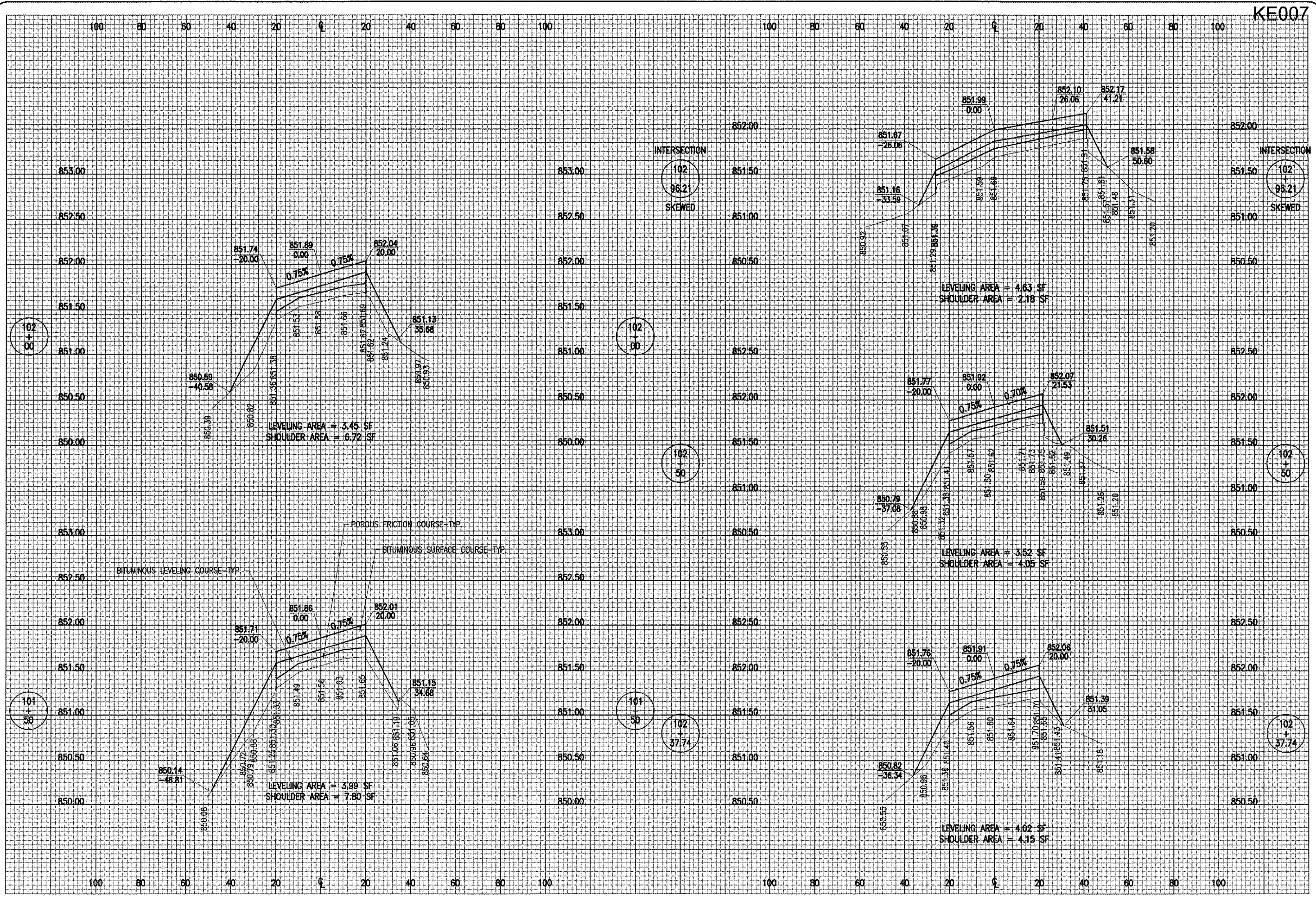
KEWANEE MUNICIPAL AIRPORT  
 KEWANEE, HENRY COUNTY, ILLINOIS  
 I.L. PROJ.: E21-3533 A.I.P. PROJ.: J-17-0058-B10

I.L. Project No. 810-06TXD 0800 Filename R-321-TXCY.DWG Scale H. 1" = 20' V. 1" = 0.5' Date 08/24/05	LAYOUT R.A.W. 08/24/05 DRAWN B.A.K. 08/24/05 REVIEWED C.A.H. xx/xx/xx
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**HANSON**  
 Hanson Professional Services Inc.  
 3125 Dandy Trail, Suite 100  
 Indianapolis, Indiana 46214  
 Offices Nationwide

OVERLAY TXY & APRON  
 CONSTRUCT VAULT  
 PROPOSED  
 TAXWAY "C" CROSS-SECTIONS  
 STA. 100+30 TO STA. 101+00

JAN 19, 2006 8:25 PM RAW  
 I:\AIRPORTS\KEWANEE\810-06TXY\AIRPORT\SHETS\R-322-TXYC.DWG - STA. 101+50 TO STA. 102+96.21



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DATE	REVISION	BY

**KEWANEE MUNICIPAL AIRPORT**  
 KEWANEE, HENRY COUNTY, ILLINOIS

IL PROJ.: E2-3533 A.I.P. PROJ.: 3-17-0058-B10

Proj. No. 810-06TXYD 0800	File Name R-322-TXYC.DWG	Scale H. 1" = 20' V. 1" = 0.5'	Date 08/24/05
LAYOUT	R.A.W.	08/24/05	
DRAWN	B.A.K.	08/24/05	
REVIEWED	C.A.H.	08/24/05	xy/xx/xx



**OVERLAY TXY & APRON CONSTRUCT VAULT**

PROPOSED TAXIWAY "C" CROSS-SECTIONS  
 STA. 101+50 TO STA. 102+96.21